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#### ABSTRACT

This guide is intended to assist vocational rehabilitation counselors in planning and conducting short-term vocational evaluations of clients. The first section discusses the elements that must be included in a comprehensive vocational evaluation. Next, strategies for conducting a vocational evaluation are explained. The next section, a case study of a one-week vocational evaluation, details the following six steps: initial review of the case, referral questions, selection of evaluation techniques, initial intake interview, plan modification, and exit interview. The fourth section includes descriptions of and materials from three model vocational evaluation programs representing three different settings (a vocational rehabilitation facility, a rehabilitation hospital, and a freestanding evaluation unit). David Van Ningen and Wayne Johansen describe the program at the Mankato Rehabilitation Center, Inc.'s Hamlet Project, Diane Aves and Ken Ogren discuss the vocational evaluation program of the Sister Kenny Institute, and Jeb Kaiser and Al Noll explain the program for vocational evaluation of the Vocational Development Center of the Stout Vocational Rehabilitation Institute. A list of references concludes the guide. Appendixes include an initial interview form; a sample case history; and a chart of useful tests and work samples with information on some or all of the following: significance of test scores, norm groups, test administration, test publisher/source, and Dictionary of Occupational Titles (DOT) codes and specific tasks addressed in the test. (MN)

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# SHORT-TERM VOCATIONAL EVALUATION

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#### **PREFACE**

During the last year and a half, the Materials Development Center has received many requests for a document on vocational evaluation reflecting the need to evaluate persons in a relatively short time period. Analysis of program evaluation data has confirmed this need. As in many similar cases over the past 13 years, MDC has responded by developing an original document to meet the needs of the field of vocational rehabilitation.

This publication describes how to plan and conduct a thorough vocational evaluation within a one week time period. No magic processes and no shortcuts are involved in this procedure. Rather, each evaluator must carefully plan how to best answer the client's referral questions by using the most appropriate assessment techniques. Thus, the theme of this publication is careful planning with flexibility. The first part of the monograph contains planning strategies and an example of their use. The second part is a detailed description of three model programs that evaluate clients in one week or less. One caution is necessary. While most clients can be accurately evaluated in a shorter time period than formerly believed possible, some severely disabled persons, and especially those without a significant work history, may require additional time.

I would like to thank all the people who provided material on the model programs: David Van Ningen, Wayne Johansen, Diane Aves, Ken Ogren, Jeb Kaiser and Al Noll. A special thanks goes to David Van Ningen for his cooperation on this as well as previous ventures. Appreciation also goes to Ms. Arlyn Treadwell who typed this document and to her constant belief that I should never be trusted with an original copy of anything.

Karl F. Botterbusch, Ph.D.

May, 1983



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### I. <u>Introduction</u>

Up to fairly recently it was the rule, rather than the exception, for vocational evaluation units to receive referrals ranging from two to four weeks in length. It was also the practice of many referring agencies to sponsor a client for a several month period of extended evaluation, usually in a sheltered workshop. These lengthy vocational evaluations reflected three philosophies and practices: First, the purpose of vocational rehabilitation has been to enable each client to reach his/her highest level of functioning, personally and vocationally. This resulted in an expressed need to evaluate a person for a wide variety of job and training options; this process also was intended to give the client time for vocational exploration. These options were often followed up by long periods of work adjustment, vocational training, and independent living services. Second, state vocational rehabilitation agencies (DVR) have had a specific mandate to serve the severely disabled. Because of the nature of this population, lengthy periods of time have been needed to obtain accurate information both from the client and about the client. Third, and perhaps the most realistic, funds were available to sponsor clients in long-term programs. Thus, each DVR counselor, most manpower coordinators, and many school counselors had the funding to finance a relatively lengthy period of vocational evaluation. Because of fiscal constraints, this situation has changed during the last two years. The philosophy of having each person reach their maximum potential has been replaced by a new pragmatic concept of evaluation to assess current skills and to provide direct placement. The fuel for the whole rehabilitation machine is federal, and to some extent, state money. Presently there is a fuel shortage which, regardless of philosophy, has forced the field of vocational rehabilitation to accept new realities. While these funding cuts are seen by many as unreasonable, the reality is that as professionals we must provide the most efficient services possible with what funds are presently available.

One of the ways to provide effective services to disabled persons is to develop procedures which enable the accurate assessment of vocational potential within a short period of time. As implied above, the approach becomes even more streamlined when evaluation results are followed up by direct placement. In order to place this trend in proper perspective, remember that persons who are severely disabled and/or persons with little or no employment history may not be accurately evaluated within a limited time. While this publication describes a shorter vocational evaluation period, this does not imply that there is only one model (i.e., assessment leading to direct placement) that is appropriate for all disabled persons. While most persons can be adequately evaluated in a week or less, some will need significantly more time.

What Needs to be Included - Regardless of the time period, all vocational evaluations need to include an assessment of physical, intellectual, social, personal and behavior factors that comprise the uniqueness of each individual. Beyond this very general knowledge are specific areas. The Commission on Accreditation of Rehabilitation Facilities' Standards Manual (1980) lists a total of 14 vocational aspects: physical and psychomotor capacities; intellectual capacities; emotional stability; interests, attitudes, and knowledge of occupational information; personal, social and work history; aptitudes;



achievements; work skills and work tolerance; work habits; work related capabilities; job seeking skills; potential to benefit from further services; possible job objectives; and the individual's ability to learn about him/herself. This is a long list for an evaluator to complete even if he/she has several weeks to assess the client.

The six areas listed below are the most critical when evaluating disabled persons. These six areas begin with the basic determination of the client's history, then attempt to assess present physical capacities, present academic skills, and psychological stability. The assessment of aptitudes and interests can be used to point the way to new occupational areas. Data from all six areas are needed to produce a final evaluation report containing realistic recommendations and goals for the client:

1. Case History - Before planning how to evaluate the client and deciding the best way to answer the referral questions, the evaluator must know the client's history. While some of this history should be present in the referral information, the evaluator must gather data on the client's personal, educational, employment and medical history and present level of activity. This information is needed both to develop the evaluation plan and to prepare the evaluation report. If the report is to be used in litigation, this information must be complete and accurate; many questions of transferability of skills and percentage of disability will be based on these data. The personal, educational, employment, and medical history establish many of the parameters for the evaluation and to a considerable degree spell out the present limitations of the client.

Information on personal, educational, employment and medical history and present activities is usually obtained during the initial interview. While little outside documentation is needed for personal, educational, and employment history and present activition, medical history is different. Here the evaluator must have the complete medical records of the client as they pertain to his/her disability. This includes psychologist, psychiatrist, and counselor reports. Medical records are patremely important when establishing physical, environmental and emotional limitations on the activities of the client. Functional limitations must be clearly defined prior to physical capacity and coordination tests.

The Initial Interview Form (Appendix A) was developed as an aid in obtaining a complete case history. When using this form, the evaluator selects items relevant for each client. Some of the data usually obtained on all clients is given below:

- Personal History Marital status, family members living with client, amount and source of family and individual income, and major debts.
- Educational History Schools attended and graduated from, apprenticeships, licenses, and estimated literacy level based on present activities.
- Employment History Military; major jobs held for at least the last 15 years and description of the tasks of these jobs.



Medical History - Recent surgeries, hospitalizations, and present treatments related to disability, medication and restrictions (NOTE: Client self-reports in the medical area must be collaborated with medical documentation).

Present Activities - Daily activities, self-description of functional problems and physical limitations.

Major inconsistencies between the initial interview results and referral information should be noted and discussed with the client.

- 2. Physical and Psychomotor Capacities Physical capacities are the person's limitations in performing certain body movements that are potentially job related. Typically, physical capacities are assessed according to standardized definitions found in U.S. Department of Labor publications, such as Handbook for Analyzing Jobs (1972) and the Selected Characteristics of Occupations Defined in the Dictionary of Occupational Titles (1981). These capacities are listed below and are defined in detail in the two publications cited above:
  - (a) strength sedentary, light, medium, heavy, and very heavy
  - (b) worker positions standing, walking, and sitting
  - (c) worker movement of objects lifting, carrying, pushing, and pulling
  - (d) climbing and/or balancing
  - (e) stooping, kneeling, crouching and/or crawling
  - (f) reaching, handling, fingering and/or feeling
  - (g) talking and/or hearing
  - (h) seeing.

Usually physical capacities are reported using the above terms as defined by the <u>Dictionary of Occupational Titles</u> (DOT). Because federal and state agencies and legal systems use these DOT definitions, these have come to be the accepted standard. Therefore, if an evaluation report will be used in any form of litigation, it is a necessity that it contain a physical capacities assessment which uses terms as defined in the DOT. When possible, these physical capacities must also be quantified. It is not enough to know that a client can reach, we also need to know to what height (e.g., shoulder level, overhead) and how frequently (e.g., once a day, twice a day or every 15 minutes). This becomes important when dealing with direct placement and job modification.\* In short, physical capacities must be quantified as much as possible and must use accepted DOT definitions.

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<sup>\*</sup>The physical capacity and environmental conditions sections of the new A Guide to Job Analysis (DOL, 1982) qualify specific factors to a much greater extent than the Handbook for Analyzing Jobs. The Guide is more appropriate when dealing with placement and job modification; the Handbook for litigation.

Psychomotor capacities are the basic coordination of the body as a whole (e.g., standing on one leg) or with one specific part of the body as a whole (e.g., with arm initially extended, touch the finger to the nose). These can be assessed either with standardized techniques (e.g., McCarron & Dial, 1976) or through the use of behavior observation.

3. Academic Achievement - Simply stated, "academic achievement" is the degree of reading, writing, spelling, and mathematics literacy possessed by the client. This should be determined early during the evaluation period so that the evaluator can plan tests and work samples that are consistent with the client's reading level. For example, nonreading interest inventories and aptitude tests would be used for a client with very low literacy skills. Beyond making the evaluation more meaningful for both client and evaluator, there are two major reasons for assessing academic achievement. First, reading, writing and mathematic skills are a prerequisite for almost every vocational training course. If one of the client's options is formalized training, then it must be known if the client can benefit from that training. Second, literacy plays a large part in direct placement. It is fairly common for a worker unable to perform medium or heavy work to be assessed for interests and aptitudes for sales or clerical occupations. A lack of literacy skills severely restricts client's options to occupational areas not requiring any significant degree of reading and writing.

The most efficient method of determining functional literacy is through the use of standardized achievement tests, such as the Adult Basic Learning Examination (ABLE), the Wide Range Achievement Test (WRAT), or the Basic Occupational Literacy Test (BOLT). When selecting an achievement test, the content should be of adult interest and the normative data must be of recent origin. Results are usually reported in grade equivalence, allowing for a fairly straightforward interpretation. Other ways of assessing literacy are through the use of clerical work samples, vocational exploration materials, and the use of job placement activities, such as writing a resume or a letter of application. In summary, regardless of the method or methods, the funcational literacy must be assessed early in the evaluation period and the results used to develop vocational goals.

4. Aptitudes - "Aptitude" is the capacity or potential to learn or to develop proficiency in a particular task, job, or area of work. Thus, an employer hiring machinest's helpers would assess the mechanical aptitude of employees for these positions. Since the mid-1930's, psychologists have investigated the specific aptitudes required for a particular job and have attempted to select persons with the aptitudes that match these jobs. This trait-and-factor approach to job selection and job placement is still the basic method used by many large employers, the military, and the U.S. Employment Service.

In assessing aptitudes, the evaluator needs to use this matching process. He/she must be able to relate the specific aptitudes required to successfully perform each job or group of jobs with the client's specific aptitudes in these occupations. This involves knowledge of two sources of data: job requirements and the client's aptitudes. Specific information on the aptitudes required for jobs is most readily obtainable from publications based on U.S. Department of Labor job analysis data. Presently all job

aptitude data are based on 11 specific aptitudes: G-general learning ability; V-verbal; N-numerical; S-spatial; P-form perception; Q-clerical perception; K-motor coordination; F-finger dexterity; M-manual dexterity; E-eye-hand-foot coordination and C-color discrimination.\* These aptitudes are defined in the Handbook for Analyzing Jobs (DOL, 1972) and A Guide to Job Analysis (DOL, 1982). While the aptitude profiles for specific-jobs listed in the fourth edition of the DOT have not been published by the federal government, these profiles are available for each job listed in the DOT from several private sources:

- VDARE Classification of Jobs (Field & Field, 1980)
- 2. Vecationology, Inc. <u>The Encyclopedia of Job Requirements</u> (McCroskey & Perkins, 1980)
- 3. Ability Information Systems A computerized job-matching process.

When measuring clients' vocational aptitudes, the evaluator has an almost limitless variety of paper-and-pencil tests and work samples from which to select. A review of the Mental Measurements Yearbooks (Burros, 1972, 1978) will provide the evaluator with tests for any specific aptitude he/she wants to measure. An older but still useful publication is Psychological Testing in Vocational Evaluation (Botterbusch, 1978). In addition to testing, the evaluator can also use numerous commercial work samples to assess a variety of general and specific aptitudes (Botterbusch, 1982).

For nonprofit organizations, the most useful method of measuring the vocational aptitudes of a literate client is to use the U.S. Employment Service's General Aptitude Test Battery (GATB). This three-hour multiple test battery provides a valid measure of aptitudes G, V, N, S, P, Q, K, F and M as listed above. Eye-hand-foot coordination and color perception must be measured by other tests or work samples. Besides being directly related to the individual aptitude profiles in the DOT based publications, the GATB results can be related to specific job requirements and more general groupings of jobs through the Occupational Aptitude Patterns (U.S. Employment Service, 1980a, 1980b).

In conclusion, when assessing for aptitudes, it is important to evaluate the client's level on the 11 aptitudes listed in A Guide to Job Analysis; other specific aptitudes, such as mechanical and artistic, should be measured as the need arises.

5. Vocational Interests and Attitudes - A client is much more than physical capacities and vocational aptitudes. Physical capacities and aptitudes tell what the client can do; interests and attitudes towards work tell what the client wants to do. The accurate assessment of interests is especially critical to people having no work history and to those who, as a result



<sup>\*</sup>There are many more vocationally significant aptitudes than these 11 that may need to be considered. However, because these 11 have been successfully used for numerous years by job analysts and psychologists, the present publication will center on these.

of accident or injury, must change their occupational field. In vocational evaluation, interest is usually determined in three ways: expressed interest, work samples, and interest inventories. In expressed interest, the client simply tells what jobs or occupational areas are attractive to him/her. This method has several problems and is only partially useful. Even though a person may have been employed in a variety of different jobs, most people's expressed vocational interests are based on a very limited view of the world-of-work. Another problem with expressed interests is that the client's interests may be strongly related to his/her perceptions of what skills, aptitudes, and training are required for a particular job. The person may like a particular occupation but fails to express an interest because he/she believes they could not get that type of job. The final problem with expressed interests is that the client really is not exposed to any new information; he/she only reorganizes old data and inaccurate perceptions in a new way.

(Vocational exploration should be used, as time permits, as a method of expanding the client's knowledge about jobs and their requirements. This can be a separate process of information giving or it could be related to the administration of work samples. Vocational exploration must include current information about the labor market.)

Most work samples are able to combine the assessment of skills with the determination of interest. At the same time they also provide the client with systematic vocational exploration. The evaluator has two general methods of determining client interest on a particular work sample. The first is through client self-report. This can take the form of client self-rating instruments or simply be a verbal report given to the evaluator. Second, the evaluator uses behavioral observation of the client to help determine interests. The time spent on the task, facial expressions, quality of workmanship, and types of questions asked the evaluator are some examples of behaviors which may indicate interest.

The third method of assessing interest is through interest inventories. As with aptitude tests, there are numerous inventories described in the Mental Measurements Yearbook. These range from picture inventories like the Wide Range Interest-Opinion Test (WRIOT) to the Strong-Campbell Vocational Interest Inventory (SCVII) aimed mostly at college bound or college educated populations. Some inventories are specially designed for skilled blue collar jobs (e.g., Minnesota Vocational Interest Inventory); others are aimed at mentally retarded persons (e.g., AAMD-Becker Reading Free Vocational Interest Inventory). With the exception of the U.S. Department of Labor's USES Interest Inventory, none of the widely used inventories are organized around the 12 interest areas in the DOL's Guide for Occupational Exploration (1979). This is unfortunate because this publication provides a direct link to the DOT, thus permitting the combining of interests and job requirements.

In assessing client interest, the evaluator is often forced to work in a rather subjective area in which he/she has to combine client self-report data, behavioral observations, and interest inventory results. This is made more difficult by the fact that each interest inventory has its own interpretation of the organization of the world-of-work which is usually not realted to any other inventory or to the DOL publications. Thus, the key in this area



is to combine several sources of data into results which can be interpreted to the client in a common sense way.

Psychological and Emotional Stability - This is the most subjective of the six areas and, therefore, the most difficult to evaluate. Here the evaluator is mostly dependent upon a few test results (most commonly the MMPI which must be interpreted by a licensed psychologist), medical records, interview data, behavior observations, and client self-reports. The purpose of this type of assessment is to determine if the client is emotionally and mentally stable enough to pursue training or to get and keep a specific job. Many clients with lengthy work histories will have self-perceptions of themselves as productive workers; injury or illness has shattered this image. A fairly high percentage will be depressed; others show emotional problems through increased usage of alcohol or illicit drugs; others will not want to risk the security of a worker's compensation or SSDI check, however small, for the stress of competing in the open labor market and still others will be thoroughly convinced that they are totally disabled because they can't perform their former job. If a client has a history of emotional or mental problems, a disabling injury or illness usually makes these problems worse.

In evaluating for psychological and emotional stability, the profession should be concerned with these problems as they relate to vocational goals. Finally, because most evaluators are not qualified psychologists or other mental health workers, problems should be stated in behavioral terms and avoid the use of jargon.

In conclusion, the above six areas are seen as the critical areas that must be covered in any evaluation, be it one week or four weeks. While the degree of emphasis on each will be dependent upon the problems of each client, each evaluation needs to cover each of these areas.

Evaluation Becomes Assessment - The uniqueness of vocational evaluation is that it combines several different techniques (i.e., testing, work samples, job trials) and different types of data (i.e., behavioral observations, self-report, job analysis) to present a complete description of a person's vocational potential as well as interests, needs and problems. The process of vocational evaluation is based upon the close interaction, trust, and sharing between the client and the evaluator. Both actively participate in this process through a mutual give-and-take and both plan to reach certain agreed upon goals. Besides this active interaction of client and evaluator, vocational evaluation usually aims for a thorough and complete understanding of the client as a potential worker. Finally, evaluation requires a considerable degree of professional judgment, much of which is subjective. Vocational evaluation can be defined as:

A specialized form of clinical assessment requiring a specialized technology and environment, requiring a period of several days or even weeks of close observation and judgment, characterized by the use of real or simulated work tasks and activities in a situation which stimulates some of the demands of work environments (VEWAA, 1975, p. 86)



This definition should be expanded to include the client's vocational development as a goal.

Assessment is the "process of finding out what the strengths and limitations of an individual are in terms of optional functional outcome and developing proposals for alternate service plans" (VEWAA, 1975, p. 86). To use an analogy, assessment is to rehabilitation services what diagnosis is to medicine. While vocational assessment uses the same techniques and methods as vocational evaluation, assessment is a more one-way process where clients' vocational strengths and weaknesses are determined by the evaluator. Because it deals with the basics of client capabilities, physical limitations, vocationally relevant aptitudes and functional literacy, assessment is more limited in scope than evaluation. Assessment usually has little concern for vocational exploration, interests, and attitudes and tends to confine itself to the immediate skills available.

The major differences between vocational evaluation and assessment are not in the methods and techniques used; the differences are in the type of information obtained and the participation of the client. Evaluation attempts to obtain more clinical information on client interests and personal concerns and in return to provide the client with information and experiences that may expand his/her vocational horizons. In other words, assessment gathers data about the client; evaluation gathers data with the client. In addition, evaluation provides the client with new information and experiences. The most important difference between evaluation and assessment is the participation of the client. During the evaluation process, the client plays an active role in the course of the process by learning mcre about his/herself, exchanges with the evaluator, and setting vocational goals.

The point of view of this publication is that the major difference between assessment and evaluation is not the technique used or the time spent with the client, it is the active participation of the client in the entire evaluation process. While it is more difficult for the client to participate when time is a major concern and when certain information must be obtained, the client must be an active participant in his/her own evaluation.

Don't let vocational evaluation become assessment and use limited time as your reason.

Goals for Clients and Evaluators - Prior to the beginning of the evaluation process, both clients and evaluators must set goals. These process goals should not be confused with the outcome goals arising from the referral questions. A careful following of process goals will permit the evaluator to provide a high quality service in a short time period. More important, process goals will serve as a reminder that the evaluator is performing vocational evaluation and not vocational assessment. The three process goals for evaluators are:

- To obtain the information needed to answer the referral questions: The purpose for evaluation is to provide the referral source with a written report that answers the referral questions in the best possible manner. Since the major objective output of the evaluation process is the evaluation report, it is absolutely necessary that the evaluator directly answer the referral questions in that report.

- To accurately determine client's vocational assets and liabilities: This goal calls upon the evaluator to select the procedures and techniques that will accurately evaluate the client's vocational abilities. This process of knowing what tools will be most effective for each particular client requires a significant degree of insight in a short period of time. The thrust of this goal is upon accuracy, not upon speed.
- To provide opportunities for client self-assessment and exploration: Either as part of the processes of answering the referral questions or as a separate process, the evaluator needs to make available experiences which will give the client opportunities for self-assessment and vocational exploration. The evaluator can use these experiences to increase the client's horizons and to give him/her a subjective opinion of what he/she can or can't do.

Besides trying to achieve these process goals, the evaluator also has the obligation to make sure that the client is an active partner in the process and that the client obtains new and useful information on his/her vocational abilities and potential. Part of the initial interview should be used to explain to the client that he/she is to use the evaluation time to gain insight into his/her own vocational behavior. The goal to be taught clients is:

- To actively participate in the evaluation process - As a result of the process, the client should be capable to be objectively aware of his/her vocational assets and liabilities and to be capable of establishing vocational goals within the limits of his/her abilities. Finally, the client will be able to explore new areas of work.

This introductory section contained what should be covered in all vocational evaluations, regardless of length, the differences between evaluation and assessment, and how the evaluator can insure that evaluation will occur even if the time is limited. The next section will present practical ways of providing quality evaluation within a limited time period.



### II. Strategies

Clearly Establish Priorities - When receiving a referral the first step is to carefully review the given information, study the referral questions, and begin to decide how these questions can best be answered. Here the evaluator compares what is being asked by the referral source with what can be done within the evaluation period. If there are few referral questions or if the questions lend themselves to a straightforward methodology (e.g., Does Mr. Jones have the manual dexterity necessary to be placed as a welder apprentice? Does Mr. Green have sufficient literacy skills to benefit from a vocational course in electronics inspection?), then there will be few problems with evaluation planning. However, if the questions are vague, too complex, or simply too many, then the evaluator must begin to clearly establish priorities. While the final decision on what referral questions to answer must wait until after the initial client interview, there are preliminary steps:

- If all referral questions can be answered, rank order them in order of importance: Some questions will be much more important to the evaluation process than others. For example, questions on physical capacities (e.g., Can Ms. Nelson reach above shoulder level at least 20 times during the course of an eight hour day?) or aptitudes (e.g., Does Mr. King have spatial perception necessary to be a floor covering installer?) would usually receive a higher priority than questions on interests (e.g., Does Ms. Brown have the interest in becoming a cashier?). Because they establish vocational parameters, questions dealing with the client's major disability should be answered first. Before attempting to provide an emotionally disturbed person with information on low stress jobs, the evaluator needs to determine if the client has any specific behaviors that would prevent this person from being employed in any job.
- Are there referral questions that cannot be answered: Some referral questions cannot be answered regardless of how much or how little time the evaluator has. Some referral questions call for medical or psychological diagnoses that are completely outside the evaluator's area of professional expertise. A question about the tolerance level of a person with a respiratory condition to dust and fumes has definite vocational implications, but cannot be answered by the evaluator.
- Are there referral questions that need to be restated: Frequently evaluators will receive only a very general referral question, such as "What is the client's potential for competitive employment?"
  "Does Ms. Brown have the skills necessary for employment?" or "Does Mr. Hill have the potential to get off of SSDI?" While in theory the evaluator could answer these vague questions, the period of time needed for trial and error decision making and the subsequent administering of numerous tests and work samples could take several weeks if not months. In dealing with vague questions, the evaluator should first review other referral information and attempt to write specific questions that he/she can answer. The referral source should be contacted; the evaluator and the referral source must restate general questions into several specific questions. For example, instead of



asking if Mr. Hill can get off of SSDI, a series of specific questions would be asked: Is he capable of performing sedentary work, as defined in the DOT, for a sustained period of at least six hours per day; can he sit in one place for at least two hours at a time; can he stand for at least one hour at a time; can he reach, grasp, feel, and manipulate small parts, hand and power tools; can he read well enough to follow simple instructions; and can he be trained for a semiskilled job in less than six months?

Prior to the initial interview with the client, the evaluator needs to list the most important referral questions to be answered during the evaluation period. The final input comes when these are shared with the client. Based on the interview data and discussion with the client, the evaluator should be able to determine if the client's needs are different from his/her needs as reflected in the referral questions. Here any conflicts and differences will have to be resolved. This is especially true if the client has definite ideas about his/her vocation future which are different from what is implied in the referral questions. The referral questions may deal with inspection and clerical areas, while the client is determined to become employed in light production work.

The final point in establishing priorities is the setting of limits. Vocational rehabilitation has shifted from long-term training and provision of services to a direct placement model. Because this model deals with the client in his/her present condition, the role of the evaluator is often to limit evaluation to: (1) realistic jobs that are available within the current labor market, and (2) training that will provide placement in a skilled or semiskilled occupation. By following these two conditions, the strategy is to limit client options and then to thoroughly assess for jobs within these options. Thus, a referral question about abilities for vocational training could be interpreted to mean ability to complete a two year drafting program at the local voc-tech school instead of a B.S. degree from the state university. Referral questions on placement could mean immediate placement within the local economy, if possible.

Using Time Wisely - The second major strategy for getting the most from the available time is to find, select, and use techniques yielding the most useful data in the shortest period of time. In answering the referral questions, the evaluator must be able to obtain data from many sources. The decision process is to know where to obtain these data and what trade-offs have to be made between accuracy, cost, and time.

The first place to look for information to answer a referral question is in the client's file. Existing medical, vocational, and personal information supplemented with data obtained during the initial interview already provide you with information on the client. Recent medical reports on physical capacities and specific medical conditions help to answer questions about present physical limitations. Reports and treatment notes by physical or occupational therapists are very useful when setting physical limitations for a disabled person. Information received from psychiatrists and clinical psychologists helps the evaluator to focus on the behavior problems of the client. Results of recent intelligence, achievement, and personality tests help to establish functional limits and eliminate the need for some testing. If already

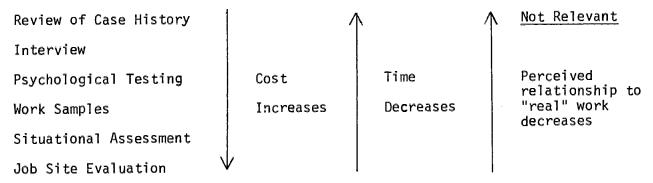
existing information is of recent origin and comes from a competent professional, it can and should be used to answer the referral questions. Stated as an axiom this becomes:

## IF RECENT, ACCURATE INFORMATION IS ALREADY AVAILABLE ON A CLIENT, USE IT TO AVOID DUPLICATION OF EFFORT.

Most writers (e.g., VEWAA, 1975; Pruitt, 1977) state that vocational evaluation uses four major assessment techniques: psychological testing, work samples, situational assessment, and job site evaluation. To these are added a review of the case history and the (initial) interview. While each of these six techniques is useful, they are not mutually exclusive. An evaluator can obtain information on finger dexterity from the client's job history, the Purdue Pegboard, a small parts assembly work sample, a job on an assembly line in a sheltered workshop or on a job site evaluation at Tonka Toys. Likewise, interest in clinical occupations can be assessed during the initial interview, by interest inventories, filing, bookkeeping, and typing work samples, being a receptionist in the rehabilitation center, or filing travel records at a state office building.

When planning the evaluation, the evaluator decides on what techniques to use. This decision involves trade-offs between three major variables: cost, time, and perceived relationship to "real" work. The six techniques and their relationship to these three variables can be diagramed as follows:

### Technique



The cost of each technique increases from the review of case history to job site evaluation; the time to obtain the information decreases from job site evaluation to a review of the case history. The client's subjective perceptions of the relationship of each technique to the world of work decreases from job site evaluation to interview. Because the client rarely participates in reviewing the case history, this technique is not relevant to the relationship-to-real work variable.

While this scheme offers the evaluator a general strategy for evaluation planning, it does not deal with the problem of accuracy. The major goal



of a short-term evaluation is to obtain accurate data to answer the referral questions in a short period of time. The accuracy of the information obtained about any client using any specific technique depends upon the interaction between the client and the requirements of the specific technique. depends on the purpose for using each technique. For example, if the evaluator needs to assess the motor coordination and spatial perception aptitudes for a literate person who has use of his/her upper extremities and has no sensory problems, accurate data could easily be obtained through testing. the client's literacy skills were so limited as to preclude paper-and-pencil testing or if he/she had problems with the upper extremities, then the evaluator would use one or more work samples that could be modified to meet the client's specific needs. If the client were more severely disabled, then a situational assessment approach would be tried. A second example involves assessing a client's interests while providing vocational exploration. While some interest determination could be performed through paper-and-pencil testing and interviews, the evaluator may consider these approaches too abstract for a lower functioning client. He/she could administer a series of relatively short work samples or plan for several situational assessments at various stations in the workshop. The evaluator should:

### USE THE TECHNIQUE THAT PRODUCES THE MOST ACCURATE DATA IN THE SHORTEST TIME.

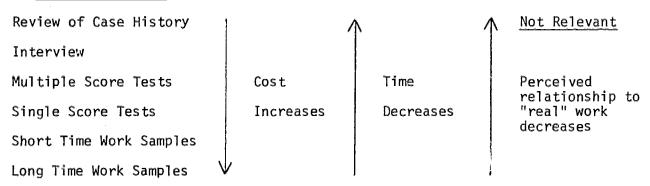
This axiom creates a potential problem with the client's subjective perceptions of the relationship between the various techniques and the reality of work. Whatever technique is used, the evaluator has the responsibility to relate it to the client's vocational goals. During the initial interview the client should be told that his/her job history is a good starting point to determine future employment; most clients are perfectly capable of understanding the transfer-of-skills concept if explained in specific terms and with specific examples. If tests are administered, the evaluator must relate each administration to the referral questions and the client's vocational goals. While work samples, situational assessment, and, especially, job site evaluation do not require as much explanation as do more abstract methods, the client must still be aware of each technique's relationship to real work. Thus, the perception of the technique-real-work-relationship must be clear to the client before any assessment device can be administered. If the evaluator cannot make this point clear, then he/she should consider using another assessment method. This need to consider the client's perceptions of the evaluation process leads to the next axiom:

# THE CLIENT MUST UNDERSTAND THE PURPOSE OF WHATEVER EVALUATION TECHNIQUE IS ADMINISTERED.

If the vocational evaluator must complete his/her assessment of a disabled person in a week or less, it is very unlikely that he/she will have

time to use either situational assessment or job site evaluation. This effectively reduces the list of available techniques from six to four: case history review, interview, psychological testing, and work sample administration. However, selection based on the cost-time inverse relationship from these four methodologies is still a valid decision making process. The evaluator can refine this process by making finer discriminations than just "tests" and "work samples." Tests could be divided into those yielding large or small amounts of specific information within a set time period. For example, the Differential Aptitude Test and the GATB provide several vocational aptitude scores and take less than three hours to administer. Other more specific aptitude tests may take 30 to 45 minutes to yield a single aptitude score. Work samples could be divided into those that require over two hours to administer to the average client and those that can be administered in less time. A more realistic model for decision making within a short period of evaluation would be:

### Method/Technique



When planning short-term evaluations, the review of the case history and the initial interview will most always be used. The most practical strategy is to decide which referral questions are not answered from these two data sources and then to select from the remaining four techniques listed above. To repeat, when selecting specific techniques, the evaluator should use the following axioms:

IF RECENT, ACCURATE INFORMATION IS ALREADY AVAILABLE ON A CLIENT, USE IT TO AVOID DUPLICATION OF EFFORT.

USE THE TECHNIQUE THAT PRODUCES THE MOST ACCURATE DATA IN THE SHORTEST TIME.

THE CLIENT MUST UNDERSTAND THE PURPOSE OF WHATEVER EVALUATION TECHNIQUE IS ADMINISTERED.



One of the most useful evaluation methods is systematic behavioral observation. Data from observations are as important to answering referral questions as test scores and work sample results. Behavior observations are often used to answer referral questions on personality/psychological problems such as: frustration tolerance, ability to work closely near other persons, acceptance of supervisor, and attention span. Behavior observation is one of the more accurate ways of assessing interests. The amount of time spent on a task, facial expressions while performing a task, inquiries for occupational information in a specific area, the quality of work performed and verbal remarks are frequently indications of interest. Physical capacities estimates must be collaborated by behavior observation; self-reports often exaggerate or minimize, physician's estimates can be liberal or conservative, and occupational therapists assessments can yield results based on maximum performance, not typical performance. The evaluator must spend time observing the client as he/she walks around the rehabilitation center, sits during test and work sample administration, stands while talking with others, reaches while putting on a coat, or bends to pick up a dropped tool. The evaluator will often administer work samples that measure physical capacities at the same time they assess aptitudes or interests. A small parts assembly task assesses reaching and sitting capacities, as well as dexterity, perception, and interest in performing routine work. Cutting wood on a table saw permits assessment of standing, bending, lifting and carrying. This need for accurate behavior observation leads us to the next axiom:

# SELECT TECHNIQUES THAT PERMIT BEHAVIORAL OBSERVATION AS WELL AS THE COLLECTION OF OTHER DATA.

The next method for the wise use of time is to select assessment instruments providing multiple data during the same administration. Rather than selecting a lengthy filing by numbers-and-letters work sample that measures only filing skills, the evaluator could use a work sample that includes the use of a typewriter and/or calculator as well as filing. The idea is to use instruments that will provide data on many aptitudes and skills at the same time. Thus, a carburetor repair task can assess fine finger dexterity, sitting tolerance, and three dimensional perception. Unless a lengthy assessment of a specific aptitude, skill or single trait is critical, the evaluator would be advised to avoid the use of isolated trait work samples that assess only one characteristic. A caution needs to be added--the work sample or test must contain enough different job tasks or job elements to assure accurate assessment of all the aptitudes and skills that are measured. In choosing multiple use work samples, the evaluator should carefully read the work sample administration and scoring instructions to determine what the work sample really measures. For example, the VITAS Calculating Work Sample (#13) claims to measure numerical ability, clerical perception, and finger dexterity (JEVS, 1979). The evaluator should carefully review the tasks of this work sample, as well as any job analyses on the work sample, to make certain that the work sample does indeed assess what it claims to. In summary, the multiple data devices but make certain that they contain enough substance in the form of different tasks to measure what they claim. The axiom is:



### WHEN POSSIBLE, USE ASSESSMENT DEVICES THAT PRODUCE MULTIPLE DATA.

Another method of saving time is to use group administered devices. This is, of course, most common in psychological testing. A group administered literacy test, aptitude test, or interest inventory can yield large amounts of useful data in a short period of time. This practice is especially helpful when administering tests usually given to all clients. If common precautions (i.e., making sure the client can read the instructions, can understand the practice items, and can physically perform the act of test taking) are followed, then a group administered test is one of the most efficient methods for assessment (Botterbusch, 1978). Group administration can be extended to work samples. Unfortunately, the only group work sample in wide usage is the Integrated Peer Performance (Valpar, 1977). This work sample permits assessment of the four clients as small parts assemblers and one client as an inspector. Administration time is about two hours. In addition to being able to evaluate up to five clients in a two-hour period, the work sample also provides an excellent opportunity for behavior observation. Evaluation units could develop their own group tasks to simulate a production line or an office setting where close cooperation and following well-defined procedures are as necessary for job success as clerical skills. Thus, a well-designed group assembly work sample could give useful data on several perceptual and dexterity aptitudes, acceptance of supervision, peer cooperation, and ability to work under speeded conditions. The time-saving rule is:

### USE GROUP ADMINISTERED TESTS AND WORK SAMPLES WHEN POSSIBLE.

The final suggestion for using time wisely deals with ways of presenting occupational information material. Because many clients have reading problems and because most people learn more in a shorter period of time through audiovisual materials, these materials (e.g., films, slides/cassette tapes) should be used where possible to provide the client with occupational information. These materials have the added advantage of being capable of group use (see above paragraph). The obvious axiom is:

### USE AUDIOVISUAL OCCUPATIONAL INFORMATION MATERIALS WHEN POSSIBLE.

This section has presented methods for increasing efficiency by establishing priorities and using time wisely. The next section will take a case history and demonstrate how these principles will apply to an actual case. The axioms to be used in planning are:



IF RECENT, ACCURATE INFORMATION IS ALREADY AVAILABLE ON A CLIENT, USE IT TO AVOID DUPLICATION OF EFFORT.

USE THE TECHNIQUE THAT PRODUCES THE MOST ACCURATE DATA IN THE SHORTEST TIME.

THE CLIENT MUST UNDERSTAND THE PURPOSE OF WHATEVER EVALUATION TECHNIQUE IS ADMINISTERED.

SELECT TECHNIQUES THAT PERMIT BEHAVIORAL OBSERVATION AS WELL AS THE COLLECTION OF OTHER DATA.

WHEN POSSIBLE, USE ASSESSMENT DEVICES THAT PRODUCE MULTIPLE DATA.

USE GROUP ADMINISTERED TESTS AND WORK SAMPLES WHEN POSSIBLE.

USE AUDIOVISUAL OCCUPATIONAL INFORMATION MATERIALS WHEN POSSIBLE.



### III. Vocational Evaluation Planning - A Case Study

The purpose of this section is to use the general principles given earlier to plan a one week evaluation using an industrially disabled worker as an example. This example will assume that the evaluation unit is capable of assessing persons with a wide variety of disabilities. It will also assume that the evaluation unit has available the most commonly used psychological tests, commercial work samples, and "homemade" work samples from the MDC Work Sample Manual Clearinghouse.

Step 1 - Initial Review of Case - Following a call from Mr. John C. Nelson, a state vocational rehabilitation counselor, you receive a Vocational Evaluation Referral form with attached information on the client's personal, educational, and employment histories as well as copies of the more important medical reports (see Appendix B). After a careful review of these records, you begin to prepare a mental picture of the most important characteristics of the client and what the vocational implications of these characteristics might be. Because these vocational implications are only preliminary assumptions based on your experience with other similar clients, they should be verified and revised as new information is obtained. You decide that the possible implications for the client's characteristics are as follows:

### Characteristic

- 42 year old married male, owns house, spouse employed. Two school aged children.
- Completed 11th grade; no vocational training beyond high school.
- Two lower back surgeries; pain in lower back at present.
- Possible chemical dependency/ alcohol problem.
- Irritable, restless nature.

### Possible Vocational Implication

Willing to relocate? Try to place or train for job in local economy.

Need to assess literacy skills, especially if vocational training is an option.

Restricted to light or sedentary work; alternate between sitting and standing.

If a serious addiction, will he need inpatient treatment? What behaviors would interfer with successful employment?

Because it is important in assessing transferable skills, aptitudes, and possibly interests, the employment history is treated separately. The job descriptions given by the referring counselor are compared to Dictionary of Occupational Titles job descriptions and the closest titles selected. The DOT job description is used to select specific tasks (or skills) that may be transferable to other areas. Data on specific vocational preparation (SVP), aptitude requirements, and physical demands can be found by using either: Classification of Jobs According to Worker Trait Factors (Field & Field, 1980) or The Encyclopedia of Job Requirements (McCroskey & Perkins, 1980). Information on the most significant aspects of Mr. Andersen's work history are noted below. Of particular importance are the tasks (or skills) that may be transferable to other areas and the significant aptitudes that were required for acceptable job performance. The Initial Job History Form (page 20) was

Client Name Andersen, Ralph J.

Evaluator T. J. Schultz

Date <u>12/3/82</u>

| DOT Title, Code & Dates   | Transferable Skills/Tasks  | Significant Aptitudes   | Physical Demands                                  | SVP               |
|---|--|---|---|-------------------|
| Farm Worker, General<br>(agric.) I<br>421.683-010<br>1957-1960  | Machinery operation, animal care, perform minor mechanical repairs; perform routine maintenance on equipment | Motor coordination;<br>finger and manual<br>dexterity                             | Heavy; climbing,<br>stooping, reaching,<br>seeing | 6 mo. to<br>1 yr. |
| Logger, All-Round<br>(logging)<br>454.684-018<br>1957-1960      | Operation and maintenance of chain saw; operation of truck and loader  | Motor coordination, manual dexterity  | Same as farm worker                               | 6 mo. to<br>1 yr. |
| Track Repairer<br>(r.r. trans.)<br>910.682-010<br>1961-1965     | Operation of special machinery, sign painting, operation of spray equipment                                  | Spatial perception,<br>motor coordination,<br>manual dexterity                    | Heavy; stooping,<br>reaching, seeing              | 3 to 6 mos.       |
| Tank Truck Driver<br>(whole. trade)<br>903.683-018<br>1965-1980 | Operation and control of pumps and valves; ability to read gauges; operation of motor vehicle                | Spatial perception, finger dexterity manual dexterity, eye-hand-foot coordination | Medium; stooping,<br>reaching                     | 1 to 3 mos.       |
|   |  | Note: All four jobs<br>require average<br>level of general<br>learning ability.   |   |                   |
|   |  |   |   |                   |
|   |  | <br>Figure 1  |   | ^ <b>1</b>        |

designed to organize this information. You place the data for the former jobs that the client has held on this form.

By the time you finish the Initial Job History Form (Figure 1), you are beginning to form some understanding of the client as a total person and how you plan to approach his evaluation. The next step is the referral questions.

Step 2 - Referral Questions - On the front of the Vocational Evaluation Referral, you find three referral "questions":

- 1. Explore job opportunities
- 2. Assess client to provide direct placement
- 3. Check out personality problems.

Here you stop. These three referral questions are much too general to be answered within a week. After rereading the vocational referral and reviewing your notes, you begin to formulate specific referral questions. When these are completed you telephone the counselor and go over the questions with him. He has a few suggestions and both of you agree on the referral questions:

- 1. What job opportunities offering a good chance for direct placement exist within a driving distance (30 miles) of the client's home?
- 2. Is the client interested in these occupations?
- 3. Does the client have the physical capacities and the range of motion to perform sedentary or light work for eight hours per day?
- 4. Does the client have the aptitudes and skills to perform routine, semiskilled industrial occupations?
- 5. What is the degree of drug and alcohol abuse, if any?
- 6. Does the client have any behaviors which would present potential employment problems?
- In the event that formal training is a future option, assess academic achievement levels.

Step 3 - Selection of Evaluation Techniques - You now have the referral questions and at least some ideas about the client. The next step is to select the appropriate techniques to answer these questions. This is the single most important phase of evaluation planning and must be done carefully. It requires considerable insight and a large degree of experience in knowing what each particular assessment device can and cannot do. Here you use a decision making process for each separate assessment technique that you consider using.

You first decide if the assessment device is related to the referral question:

- Does the purpose of the assessment technique match the intent of the referral question?



- Does the test, work sample, etc., measure what it purports to measure and how does this relate to the referral question?
- Does the instrument yield reliable data?

In order to answer these questions, you must know the reliability, validity, and norms for each instrument that you choose to use. This means that you need to be thoroughly familiar with each assessment technique in your evaluation unit prior to choosing it for use with a client.

The second decision point is simply:

- Does the client have the literacy skills required to take a particular device?

Here you must know and be able to compare two factors: (1) The required reading level of each device, if any, and (2) the client's literacy skills. Reading levels for psychological tests are almost always found in their manuals and reading levels for work samples can be estimated if not contained in their manuals. The client's literacy level can be estimated by his/her educational level, age, employent history, and previous tests. If you are not sure about reading or mathematical skills, you should schedule a short literacy test as the first step of the evaluation. These results are needed to plan the selection of tests and work samples.

Third, you must ask:

- Does the client have the physical capacities required to perform on a particular device?

Here you are walking a thin line between "definite no's" and "possible no's." "Definite no's" are based on medical recommendations and common sense. If the orthopedic surgeon says "no bending" you are not going to assign a client to a materials handler job sample. The "possible no's" involve trying to establish physical capacities without injuring or causing unnecessary pain or fatigue. If a client can only sit for 30 minutes, you can assign him/her to a task that requires sitting for a longer period, assuming you inform him that he can get up to move around if necessary. The same is true with a standing or reaching task. As a professional, you realize that there are no rules to follow here; you must use your judgment when planning, then be observant during administration of any device, and finally be willing to change the evaluation plan as necessary.

Finally, you ask:

- Does the client have the sensory skills necessary to perform on a particular device?

The final step in selection of a particular assessment tool for a particular client to answer a specific referral question is simply "Does the client have the capabilities to perceive the test, work sample, etc., content?" This usually means does the client have the visual and hearing perception to understand the instructions and the actual content of the device (see Dickson,



1976, and Botterbusch, 1976, for ways of modifying tests and work samples for visually and/or hearing impaired clients).

You use this informal decision making process to select appropriate assessment techniques for each referral question. The results are written on the Individual Evaluation Plan form\* (Figure 2). You complete the identification material and write the first referral question:

- I. What job opportunities offering a good chance for direct placement exist within driving distance (30 miles) of the client's home?
  - #1 Teach Use of Occupational Information System The first assessment technique is to teach the client how to use the occupational information system so that he can freely search for job opportunities. He is taught how to use the classification system, where the print files are and how to use audiovisual materials. You get him started and then check back once or twice. (Date & Time 12/6/82; 2:45 3:30 P.M.)
  - #2 Review Occupational Information System Findings The next day Mr. Andersen is to continue to search for jobs in the manner described above. You will make sure that he has gotten started Tuesday morning and then spend about 30 minutes with him going over the results. (Date & Time 12/7/82; 9:00 10:30 A.M.)
  - #3 Meet with Placement Specialist At the end of the week you schedule an appointment with the placement specialist to discuss opportuni-. ties for direct placement. By this time the client will have been exposed to a wide variety of experiences and should have a good subjective estimation of his capabilities and limitations. Prior to this meeting, you will give the placement specialist your own initial findings. (Date & Time 12/10/82; 8:30 9:00 A.M.)
- II. Is the client interested in these occupations?
  - Assessments #2 and #3 above relate to interests as much as they do to occupational information.
  - #4 Minnesota Importance Questionnaire The MIQ (Weiss, et al., 1975) will help to identify personal need areas and relate these to jobs that can fill these needs. In addition to providing data on this referral question, the MIQ may relate to question IV, behaviors that would cause employment problems. You arrange for a co-worker to give the MIQ at one sitting to all clients who are scheduled to take it that week. (Date & Time 12/9/82; 11:00 11:30 A.M.)



<sup>\*</sup>This form is taken from Paul McCray, <u>The Individual Evaluation Plan</u>, Menomonie, Wisconsin: Materials Development Center, 1978. This publication contains a detailed discussion on evaluation planning; the steps used in this publication are modified from the McCray publication.

### INDIVIDUAL EVALUATION PLAN

Client: Ralph J. Andersen Evaluator: T. J. Schultz Evaluation Period: Beginning: 12/6/82 Ending: 12/10/82

Review Dates: \_\_\_\_\_ Asterisk (\*) denotes a plan modification.

| Referral Questions to be Answered          |   | Assessment Techniques   | Administration<br>Dates and Times |                      | Persons<br>Involved |          |
|--|---|---|-----------------------------------|----------------------|---------------------|----------|
| good chance for dir<br>exist within drivin | What job opportunities offering a good chance for direct placement  | #1 Teach client to use occupa-<br>tional information system             | 12/6/82                           | 2:45-3:30 PM         |                     |          |
|  | miles) of the client's home?  | #2 Go over findings with client on information system                   | 12/7/82                           | 9:00-10:30 AM        |                     |          |
|  |   | #3 Meet with placement special-<br>ist to discuss direct place-<br>ment | 12/10/82                          | 8:30-9:00 AM         | Μ.                  | F. Jones |
| II.  | Is the client interested in these   | - See #2 and #3 above   |                                   |                      |                     |          |
| occupation                                 | occupations?  | #4 Minnesota Importance Ques-<br>tionnaire                              | 12/9/82                           | 11:00-11:30 AM       |                     |          |
|  |   | #5 Wide Range Interest-<br>Opinion Test                                 | 12/8/82                           | 2:30-3:30 PM         | K. 1                | R. Allen |
| III.                                       | Does the client have the physical capacities and range of motion to perform sedentary or light work for eight hours per ay? | #6 Upper Extremity Range of Motion                                      | 12/8/82                           | 9:00-9:30 AM         |                     |          |
|  |   | #7 Whole Body Range of Motion   | 12/8/82                           | 1:00-1:45 PM         |                     |          |
|  |   | #8 Stout U-Bolt Assembly Work<br>Sample                                 | 12/7/82                           | 1:00-3:30 PM         |                     |          |
|  |   | #9 Dahl-Holmes Small Engine<br>Work Sample                              | 12/9/82                           | 9:00-11:00 AM        |                     |          |
| · ^ @                                      |   | #10 Behavioral Observation for Signs of Pain                            | Ongoing =<br>each ha              | 3 minutes<br>If hour |                     | · 🐴 🚁 ·  |

Figure 2

Client: Ralph J. Andersen

| Referral Questions to be Answered  | Assessment Techniques  | Administration<br>Dates and Times |                                | Persons<br>Involved |         |
|--|--|-----------------------------------|--------------------------------|---------------------|---------|
| IV. Does the client have the aptitudes<br>and skills to perform routine,<br>semiskilled industrial operations? | #11 General Aptitude Test<br>Battery                                     | 12/6/82                           | 11:15-12:00 PM<br>1:00-2:30 PM |                     | Sundin  |
| seminarities illegation obeigations.   | - See #8 and #9 above  |                                   |                                |                     |         |
|  | #12 Revised Tomcheck/Brown Eye-<br>Hand-Foot Coordination Work<br>Sample | 12/7/82                           | 10:45-12:00 PM                 |                     |         |
|  | #13 Electronics Assembly   | 12/8/82                           | 9:45-12:00 PM                  |                     |         |
| V. What is the degree of drug and alcohol abuse, if any?   | #14 Assessment for Alcohol and<br>Drug Abuse                             | 12/8/82                           | 1:00-2:00 PM                   | T. S.               | Dunn    |
| VI. Does the client have any behaviors   | - See #13 above  |                                   |                                |                     |         |
| <pre>which will present potential em- ployment problems?</pre>   | #15 Intake Interview   | 12/6/82                           | 9:30-10:30 AM                  |                     |         |
|  | #16 Integrated Peer Performance<br>Work Sample                           | 12/9/82                           | 2:00-3:30 PM                   | M. F.               | Jones   |
|  | #17 Behavioral Observation   | Ongoing                           |                                |                     |         |
| VII. In the event that formal training   | #18 Wide Range Achievement Test  | 12/6/82                           | 10:30-11:00 AM                 | J. M.               | Sunding |
| is a future option, assess<br>academic achievement levels.   | - See #10 above  |                                   |                                |                     |         |

|                   | nal alle Allectaid | ueal auaciadana Ani iAit | sa in carrying out thi |
|-------------------|--------------------|--------------------------|------------------------|
| Evaluator Signatu |                    |                          | Date:                  |
| Client Signatu    |                    |                          | Date:                  |
| Signatu           |                    |                          | Date:                  |
| Signatu           |                    |                          | Date:                  |
| Signatu           | ire:               |                          | Date:                  |

- #5 Wide Range Interest Opinion Test You want to make certain that you are not overlooking any interest areas that were not discovered through other means, so you select this general interest inventory (Jastak and Jastak, 1972) designed to cover the entire world of work. This test is untimed and almost self-administering, so you only need to get Mr. Andersen started. (Date & Time 12/8/82; 2:30 3:30 P.M.)
- III. Does the client have the physical capacities and the range of motion to perform sedentary or light work for eight hours per day?

Here you encounter two problems. The first is the range of motion, which can be rather easily assessed directly by using two work samples - Valpar #4 (Upper Extremity Range of Motion) and #9 (Whole Range of Motion) (Valpar Corp., 1974a; 1974b). You also can assess capacities for sitting, standing, bending, and reaching as well as general work endurance. You plan to use work samples that require fairly lengthy periods of sitting and standing. One work sample also measures repeated reaching and another bending to a degree. You realize that the best way to evaluate endurance is through careful behavior observation during the entire week. Keeping all of this in mind, you plan to use the following devices:

- #6 Upper Extremity Range of Motion This Valpar (1974c) work sample is designed to evaluate the client's subjective complaints of pain and fatigue in the shoulder, arm, elbow, wrist, and hand. It is administered in about 30 minutes and will require your careful observation throughout that time period. (Date & Time 12/8/82; 9:00 9:30 A.M.)
- #7 Whole Body Range of Motion This Valpar (1974d) work sample assesses the client's ability to bend, reach overhead, grasp, and crouch. It measures subjective complaints of pain and fatigue for the mid-back, lower back, hips, knees, ankles, feet, shoulders, elbows, wrists, and fingers. It takes about 45 minutes to administer and requires careful observation during that time. Before you administer either of these two range of motion work samples, you check the client's medical records for any restrictions. (Date & Time 12/8/82; 1:00 1:45 P.M.)
- #8 Stout U-Bolt Assembly Work Sample This routine assembly task (Botterbusch, 1974) is used by you to measure manual, bimanual and finger dexterity. Because it is administered to a seated client and takes from two to three hours, it measures sitting tolerance. Constant reaching within about 18 inches of the body is also required. It can also be used to measure tolerance for repetitive work.
- #9 Dahl-Holmes Small Engine Work Sample The major task in this work sample is the disassembly and assembly of a small gasoline engine (Dahl & Holmes, 1974). You select this work sample because it requires the client to stand for about two hours as well as reaching and some lifting from table level. Besides these physical capacities, the task assesses skill with hand tools, spatial perception, manual dexterity, and eye-hand coordination. (Date & Time 12/9/82; 9:00 11:00 A.M.)

- #10 Behavioral Observation The four devices listed above for assessing physical capacities are all limited to fairly short periods of time. You need to be able to estimate the client's endurance for full time work. In order to accomplish this, you must rely on behavioral observations of the client during the evaluation period. You decide on a point-sampling approach in which you will observe him for three minutes every 30 minutes. During these times you will watch for: (1) signs of fatigue, (2) unusual positions, (3) shifting weight while sitting, (4) frequency of alternations between standing and sitting, (5) posture when walking, and (6) verbal remarks or complaints of pain and fatigue to you, other staff or clients.
- IV. Does the client have the aptitudes and skills to perform routine, semiskilled industrial operations?

With this question you become concerned with accurate assessment of perceptual and dexterity aptitudes as well as specific skills with tools. Based on the analysis of the client's job history, you suspect that he has adequate gross coordination and manual dexterity. You will assess for these, of course, but your emphasis will be on fine dexterity and the perceptional aptitudes. You select the following devices; fortunately, two of these serve the dual purpose of assessing physical capacities:

- Assessments #8 (Stout U-Bolt Assembly Work Sample) and #9 (Dahl-Holmes Small Engine Work Sample), listed above, will provide assessments of finger, manual, and bimanual dexterity, spatial perception, and the use of hand tools.
- #11 General Aptitude Test Battery This widely used multi-aptitude battery is selected because it can give an accurate estimate of nine work related aptitudes in about two and one-half hours. Test results can be matched directly with specific groups of jobs called Occupational Aptitude Patterns (U.S. Employment Service, 1970; 1980a, 1980b). The GATB aptitudes needed to answer this referral question are: S spatial perception, P form perception, Q clerical perception, K motor coordination, F finger dexterity, and M manual dexterity. The GATB is administered to a group of clients on Monday morning by each evaluator on a rotating basis. (Date & Times 12/6/82; 11:15 12:00 P.M., 1:00 2:30 P.M.)
- #12 Revised Tomcheck/Brown Eye-Hand-Foot Coordination Work Sample You select this task because it assesses coordination of the eyes, hands, and feet; this is a common requirement of bench assembly and machine trades jobs (Banks, 1974). You are also interested in seeing if the client can perform the task with work rhythm. (Date & Time 12/7/82; 10:45 12:00 P.M.)
- #13 Electronics Assembly This work sample is one of the Singer Vocational Evaluation System units (Gannaway, Becket & Weiner, 1979). You select this because it will measure fine finger dexterity, ability to follow directions, and ability to work within close tolerances.

Because this work sample also relates to specific placement possibilities in electronics, electrical, and other bench assembly occupational areas, it can also be used for occupational exploration. (Date & Time - 12/8/82; 9:45 - 12:00 P.M.)

V. What is the degree of drug and alcohol abuse, if any?

It is critical to determine the degree of this problem before any definite plans are made for direct placement or training. Here you are concerned about two questions: (1) Is the client's problem severe enough to meet in-patient treatment and (2) Would some of the problem behaviors be reduced or eliminated if this chemical dependency problem were controlled? However, you do not feel qualified to handle this assessment, so you contact a counselor friend at the County Alcohol and Drug Abuse Association and arrange for her to make an assessment.

- #14 Assessment for Alcohol and Drug Abuse The chemical dependency counselor will determine if the client meets the medical definitions of alcoholism and drug dependency. If so, then this must be treated prior to placement. She will also report her impressions on how the problem relates to the client's behaviors. This will be given to you in the form of a short written report prior to staffing. (Date & Time 12/8/82; 1:00 2:00 P.M.)
- VI. Does the client have any behaviors which would present potential employment problems?

The referral information mentioned "irritable, restless nature" which leaves you with many questions about his behavior. You assume from the job history that he knows and has used proper work habits and behaviors in the past. The question, then, centers on present behaviors and not on lack of knowledge. You are concerned about several major areas: (1) relationship to authority, (2) response to closer supervision than he encountered as a trucker, (3) ability to work closely with co-workers, and (4) determination of flexibility in new situations. While not strictly behavioral in nature, you are also interested in his ability to accept his physical limitations and to take an active role in planning for his future. With these concerns in mind, you arrange for the following techniques:

- Assessment #14, the evaluation by the chemical dependency counselor will provide data on behaviors in a threatening situation with an authority figure.
- #15 Intake Interview This will provide you with direct experience in how he copes with authority and how responsible he appears to participate in future plans. You will also assess his flexibility.
- #16 Integrated Per Performance Work Sample This Valpar work sample is designed to assess assembly skills, to assess behaviors between clients as co-workers, and to assess behaviors with an inspector, an authority figure. Because you have already assessed the client's



dexterity skills, you are mainly using this work sample to measure behaviors with co-workers and with authority figures. This work sample provides a structured setting for these behavioral observations. As an additional variable, you arrange for another evaluator to administer this task to five clients at a time. You use this time to get some of the endless paper work done. (Date & Time - 12/10/82; 2:00 - 3:30 P.M.)

- #17 Behavioral Observation This you will use as the major method of assessing the client's work behavior. You will have numerous opportunities to interact with him throughout the week and to watch his interaction with staff and with other clients. Some of the critical times for observations will be when: (1) giving the instructions for tests and work samples, (2) correcting mistakes during the practice phase of work samples, (3) giving feedback to test and work sample results, (4) interaction with other clients during breaks, and (5) any casual conversations with you or other staff. You will also use the observations of the placement specialist on December 10, 1982 at 8:30 9:00 A.M.
- VII. In the event that formal training is a future option, assess academic achievement levels.

If Mr. Andersen cannot find employment in a job that is within his present limitations, then the vocational rehabilitaltion counselor wants you to provide data for this contingency. The basic question now becomes how to determine the client's literacy skills and his general intellectual level of functioning. While you expect that these are somewhat related, you still want to make certain. Fortunately, assessment of these variables can be quickly performed with group psychological tests. As a general policy, your evaluation unit administers the WRAT to most clients to determine mostly reading skills. These results are used to help plan the type of instruction required to communicate with the client (see McCray, 1979). The following two instruments are used:

- #18 Wide Range Achievement Test The WRAT assesses reading, spelling, and arithmetic skills within about 30 minutes (Jastak, Jastak & Bijow, 1976). Results are given in grade equivalents and in percentiles. You will compare the results with the reading and mathematic levels required by adult vocational-technical schools. This regularly scheduled group test will be given to several clients on Monday morning. (Date & Time 12/8/82; 10:30 11:00 A.M.)
- #19 General Aptitude Test Battery The GATB has already been scheduled to help answer referral question #4 on aptitudes and skills. Referral question #7 is primarily concerned with three aptitudes that are related to academic skills: G general learning ability, V verbal, and N numerical. (Date & Times 12/6/82; 11:15 12:00 P.M., 1:00 2:30 P.M.)

You have tentatively planned the entire evaluation week for Mr. Andersen. He is in the evaluation unit Monday through Thursday from 9:00 A.M. to 12:00

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noon and from 1:00 to 3:30 P.M. On Friday he is there from 8:30 to 9:00 A.M. After that time you have to organize data on him and three other clients to have it ready for a series of 30 minute staffings scheduled for Friday afternoon. You now must wait to see Mr. Andersen during the intake interview.

Step 4 - Initial Intake Interview - The next step is the intake interview which is scheduled for one hour on Monday morning. You first review the referral information to determine if you need to know more about any specific aspect of Mr. Andersen's case. You decide that there are numerous holes in the referral information, so you plan to ask the client questions about his personal, educational, employment, and medical history that are not covered in the vocational evaluation referral or in the medical reports. You plan to collect the data as outlined on the Initial Interview Information Form given in Appendix A. (The information on this form can be used to prepare much of the evaluation report, especially sections dealing with personal education, employment, and medical history.)

In addition to the questions on the form, you need to ask:

- 1. If specific vocational training was found to be necessary, could present family income support your family for one year? For two years?
- 2. If you could not find a job in this area, would you be willing to relocate or would you prefer to get training that would make you employable within this area.

The clients arrive at 9:00 A.M. on Monday and after a brief introduction to the facility, an explanation of the purpose of evaluation and a short question-and-answer session, you begin the initial intake interview at 9:30 A.M. Using the Initial Interview Information Form (Appendix A), you ask all the questions not covered in the referral information. You spend some time on the questions on vocational training and relocation, finding out that while Mr. Andersen would prefer a direct placement, he would consider training only if a good paying job was not immediately available. He would not consider relocation under any circumstances.

His job history is reviewed and you find out that he held a part-time job for about two years as a gasoline station attendant. Because this was 15 years ago, you decide it is irrelevant and omit it from any future consideration. When asked about direct placement, Mr. Andersen states that he would like an inside job with good pay, but beyond that he really doesn't know. He would try production or maintenance work if it were within his physical limitations, which he sees as being permanent and severe.

At this point you show him the referral questions and the individual evaluation plan. He likes the idea of finding out more about available jobs and what he can do, ever though he does not think he can do much of anything. He becomes defensive when seeing the questions on behaviors and substance abuse. You tell him that he probably knows how to survive on a job, but that his doctors and V.R. Counselor have noted problems with being restless, short tempered, and in general not being easy to communicate with. He gets angry and then finally agrees that because of his back pain he has been touchy



lately. You approach the referral question on substance abuse and he grows increasingly hostile and defensive, especially at the notion of an assessment by a chemical dependency counselor. He says he needs a job and once he gets one he will cut back. You say he may not be able to keep a job and if he could he would find another excuse to drink. You end the argument by telling him he will talk with the drug counselor.

You explain that this plan is a written agreement on how he will spend his week at the evaluation unit and, more important, what questions you must answer so that his vocational future can be determined. He leaves the interview to take the WRAT.

Step 5 - Plan Modification - As Mr. Andersen leaves, you realize that you most likely will be able to complete the evaluation period without making major changes in his evaluation plan. While Step 5 is often necessary, you really try to avoid it by concentrating your efforts on a careful review of the case and developing accurate referral questions prior to even seeing the client. However, you realize that there are times when you must modify the plan prior to the start of evaluation:

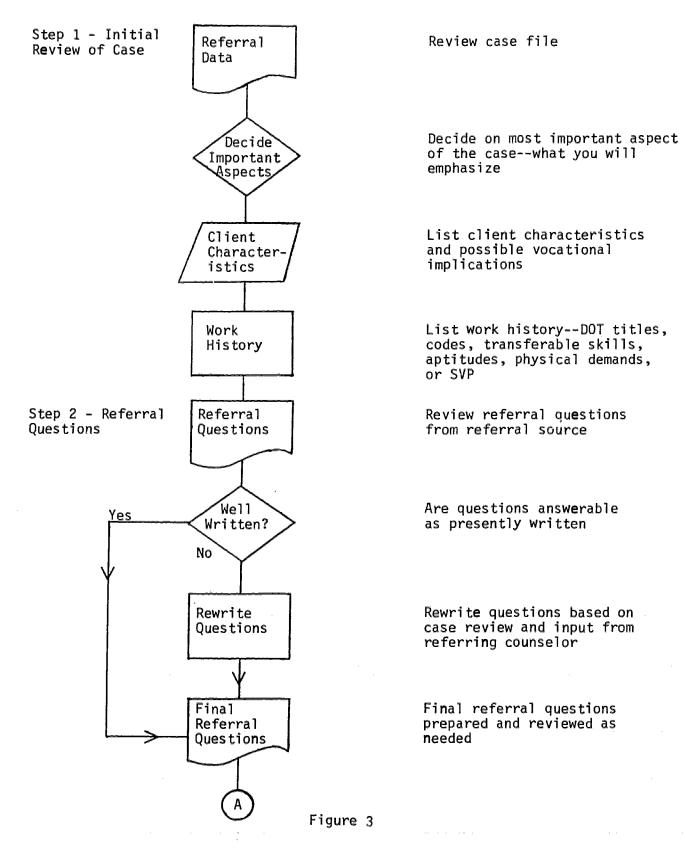
- The client's literacy skills are too low for the tests, work samples and occupational information you have selected.
- The client had a definite interest that was not stated until the initial interview.
- The client's physical condition was not accurately reported and you had to change techniques to accommodate this.
- The client has behavioral problems that require exploration.

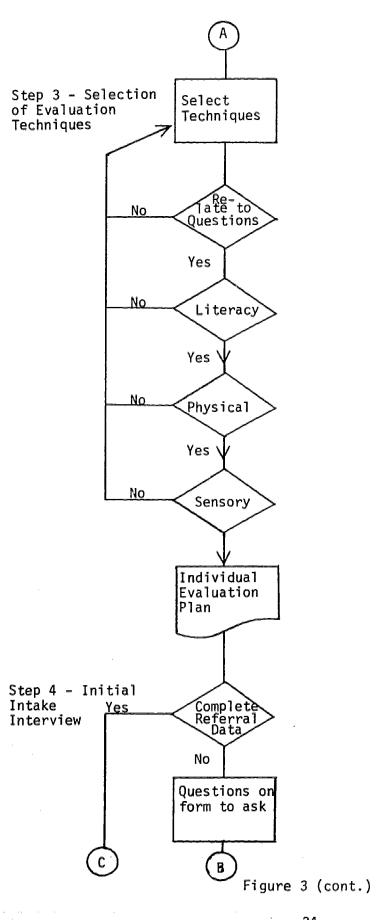
Even after the evaluation period has started, you realize that there are times when the plans must be changed because of: the realization of a newly found interest, the presence of a new source of occupational information, the change in a significant behavior, or the need to explore one aptitude or skill in depth. If you make any changes in the evaluation plan, you are certain to record these and give the reasons why.

As a professional you realize that the client's individual evaluation plan is the client's plan and may be changed if new data raises unexpected problems.

Step 6 - Exit Interview - On Friday morning you plan to see Mr. Andersen for the exit interview. You present your results to him in an informal manner and tell where you see him going from here. Mostly, however, you just listen to what he has to say and how he sees his future. He is somewhat more competent about his abilities and feels that he can get a job locally with the help of a placement specialist. He is extremely upset about the behaviors and the results of the session with the chemical dependency counselor. You tell him briefly what your final recommendations will be at the staffing and invite him to attend his own staffing. As he leaves you make a few final notes and place the Initial Interview Information Form, the Individual Evaluation Plan, behavior observation form, and results of tests and work samples in his folder; these will be the basis of your report. Your next client is waiting outside.

Summary - This section used a case history approach as a method of illustrating six basic steps in evaluation planning: initial review of case, preparation of referral questions, selection of evaluation techniques, initial intake interview, plan modification and exit interview. These steps have been outlined on the Flow Chart (Figure 3) on pages 33-37. This summary chart can be detached from this publication and used as a guide to decision making. The point of this exercise is that as an evaluator you can plan a solid one week evaluation of clients by using careful preliminary planning, specific referral questions, and a variety of established techniques.





For each referral question select appropriate technique. For each technique some decisions

Do results of this specific technique relate to the referral question asked?

Does client have the literacy skills required?

Does client have the physical capacities required?

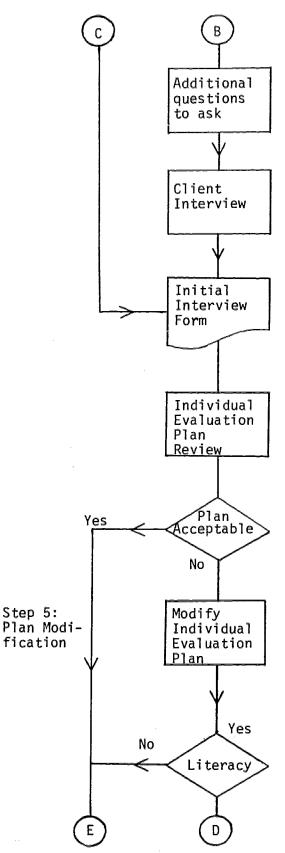
Does client have the sensory skills required?

Completion of Individual Evaluation Plan form listing specific technique(s) for each referral question

Is referral information complete?

What questions must be asked to complete the Initial Interview form?

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What questions not on the Initial Interview form must be asked client?

Interview client to answer necessary questions on personal, educational, employment, medical history and present activities

Complete all relevant information on Initial Interview Form

Review Individual Evaluation Plan with client

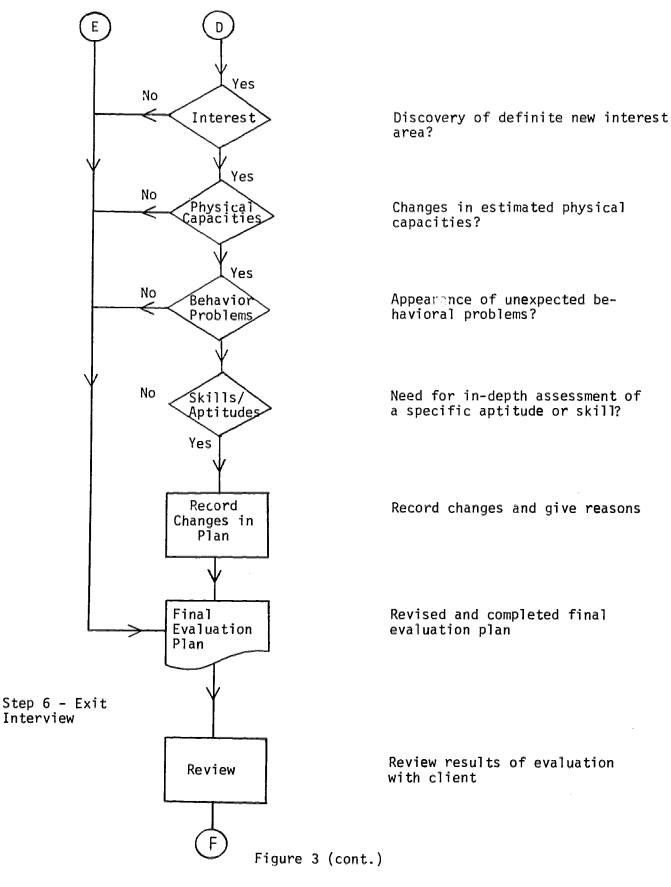
Is plan acceptable to both you and client?

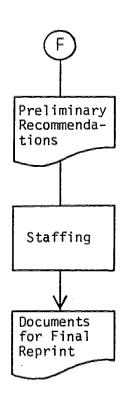
Modify Individual Evaluation Plan as necessary. Base changes on new data obtained during initial interview or during evaluation process. Referral questions and specific techniques are changed according to:

Misestimate of client's literacy skills?

Figure 3 (cont.)







Show client preliminary recommendations and discuss staffing

Discussion of case with staff, client, etc. Final recommendations are made

Gather all documents for report preparation - Initial Interview form, evaluation plan, behavior observation, test and work sample results

### IV. Model Programs

This section contains examples of three vocational evaluation units that have successful one week vocational evaluation programs. These programs were selected because each occurs in a different setting: a vocational rehabilitation facility, a rehabilitation hospital, and a freestanding evaluation unit. When reading these descriptions and when comparing the programs of each, the reader should remember that while there are major differences in the methods and philosophy, each program stresses careful planning and thorough reporting.



## The Mankato Rehabilitation Center, Inc. - Hamlet Project

The Mankato Rehabilitation Center, Inc. (MRCI) is a private nonprofit agency providing a wide range of transitional and long-term programs. The Center is located in Mankato, Minnesota, 80 miles southeast of the Minneapolis/St. Paul Metropolitan area and has satelite facilities in the southern Minnesota communities of Fairmont and New Ulm. Each year MRCI serves over 1,000 disabled people in the following programs: Vocational/Work Evaluation, Work Adjustment Training, Extended Sheltered Employment, Work Activity, Food Service and Janitorial Skill Training, Pre-school and Adult Developmental Achievement Center, Job Placement, and Speech Therapy.

MRCI has two vocational evaluation units. The original evaluation unit is more of a "traditional" program in design, encompassing a very wide variety of evaluation techniques, tools, machines, and work environments. The population traditionally served by MRCI generally has had little work experience, has behavioral and/or other personal problems significantly impacting on vocational development and/or employment, often has limited independent living skills, and usually requires the intense social and personal adjustment services offered by the MRCI staff. This traditional evaluation is typically two to four weeks in length.

As the population utilizing MRCI became more diverse, including an increased number of industrially injured persons, the desirability for an alternative evaluation model emerged. Referrals to MRCI included a great number of people with the following significant characteristics: substantial past work histories, capacity to perform at satisfactory levels on psychometric tests and short-term work samples and relative freedom from multiple handicaps which greatly complicate assessment. The Hamlet Evaluation Unit began in the Fall of 1981 with a program designed to offer a comprehensive evaluation of vocational factors with a conservative expenditure of both time and resources. The approach includes a maximum use of an individual's vocational history and life experience to identify transferrable skills, physical capacity (within the confines of a shorter evaluation), aptitudes and interests. The McCroskey Vocational Quotient System is used as a means of snythesizing and analyzing data on which the client builds a profile of their abilities and interests. Gaps in vocational factors information persisting after an initial analysis of the client's background are filled through aptitude and interest assessment using tests, inventories and specially selected work samples. This profile can then be compared with the job requirements of the 12,099 occupations recognized in the Department of Labor's Dictionary of Occupational Titles utilizing the Encyclopedia of Job Requirements (McCroskey, 1981).

The evaluation is five days in length with the bulk of the assessment process being completed in four days or less. The fifth day is reserved for an exit conference with the client and referring counselor.

The program is not intended to substitute for the more extensive vocational evaluation mentioned above; it is intended for persons who generally have had work experience and are primarily in need of defining their current vocational abilities which may have changed as the result of the occurrence of a disability. The appropriateness of the Hamlet Evaluation for each client

is determined by the referring counselor, the client, and project staff who are familiar with both evaluation models.

The evaluation process involves the client as much as is possible. The client is instructed on use of the <u>Dictionary of Occupational Titles</u>, <u>Guide to Occupational Exploration</u>, <u>Occupational Outlook Handbook</u> and various other vocational exploration materials. The client is also instructed in the use of various aspects of the McCroskey Vocational Quotient System. In effect, with guidance and direction from the staff, each client builds his/her own vocational profile. During the development of the project, the assumption was that by allowing the client sufficient insight into the process, he/she will complete evaluation with a thorough understanding of the conclusions and recommendations resultant from the evaluation. In fact, informal yet routine feedback from clients completing the process indicates that they are indeed leaving with a better understanding of themselves vocationally. Clients also frequently express satisfaction with the extent to which they were involved in their own evaluation and search for viable vocational alternatives.

#### The Evaluation Process -

An initial intake interview with the client is the first step in the evaluation process and usually occurs two weeks prior to the client entering the program. Obtaining a detailed work history from the client is a primary objective of the interview; however, equally important is a brief explanation of the program for the client, an overall review of the client's current situation from his/her perspective and identification of any barriers which may interfere with attending the evaluation (transportation and housing).

On the first day of the evaluation, the client is assisted in using the vocational exploration materials to identify interests and options. Standardized vocational interest tests and inventories may or may not be used to supplement and guide this search. The clients are not restricted to which jobs they select, but they are guided in choosing jobs which are represented in the local job market. Clients are asked to identify up to ten jobs. Some of these jobs are obtainable as short-term goals; others are jobs which are long-term goals.

Group techniques are emphasized during the evaluation. Three to five clients are evaluated during the same week. Interaction during vocational exploration is encouraged as clients assist each other in utilizing the vocational exploration material and identifying possible job alternatives. Similarly, group testing is used as much as possible in that it is more efficient. Immediate feedback is given to each individual where possible as to the results of his/her tests.

Test results and their implications for vocational decision making are interpreted to the clients in a manner intended to assure their understanding of how the test and its results apply to their occupational choices. The client is assisted in developing graphs which depict their relative performance and assist them in seeing how their performance compares to norm groups. Clients also are asked to do a self-rating of their physical capacities and environmental conditions. The evaluator makes behavior observations throughout the evaluation time.



Once all evaluation data has been compiled, interpreted to the client, and entered into the profile, the work evaluator and the client develop a final, adjusted profile based on evaluation information and referral information. The client then compares his/her initial occupational choices with the adjusted final profile, eliminating choices that are unrealistic due to difficulty levels, physical demands, etc. The evaluation progresses at this point with additional vocational exploration, using the Encyclopedia of Job Requirements and the other vocational exploration data to identify realistic potential occupational choices. A significant amount of vocational guidance and counseling is available throughout the process as it is especially important at this stage. Although the client is expected to make specific job choices at this time, exploration need not end when the evaluation is completed. Further exploration either at the Hamlet project or with the referring counselor is possible.

On the final day of evaluation a planning conference is held with the client, counselor, evaluator, and/or other appropriate persons. The intent is to review the evaluation information and to identify appropriate goals and steps in the client's subsequent rehabilitation plan.

A "diary" of the process follows to assist the reader in understanding the program flow.

### MONDAY, 8:30 A.M. to 10:00 A.M.

Orientation, introduction of vocational exploration materials. At this point the evaluator will spend time with the client verifying work history and assisting the client in profiling past jobs on the data sheet.

## 10:00 A.M. to 11:30 A.M. (following a break)

Initial list of job choices is developed using the DOT, GOE, OOH, etc.

## 12:15 P.M. to 3:00 P.M. (following lunch)

Paper/pencil testing.

## TUESDAY, 8:30 A.M. to 11:30 A.M.

Dexterity testing is initiated and completed.

## 12:15 P.M. to 3:00 P.M.

Any additional testing which may be left is completed. Following completion of testing the client continues listing initial job choices prioritizing and transferring choices to the McCroskey Vocational Quotient Scale (MVQS) Profile Data Sheet. At this point test results are given to the client with an explanation of the percentile rankings and the client is given time to ask questions about his/her scores and the meanings of the tests. The client is assisted in recording the test results on the graph forms and in locating his/her levels of performance. Client transfers aptitude levels to the MVQS Profile Data Sheet.



#### WEDNESDAY, 8:30 A.M. to 11:30 A.M.

Client finishes recording aptitude levels on the data sheets. He/she then completes the self-rating of physical capacities and environmental preferences. This is followed by a physical capacities interview with the client to verify the self-ratings. At this point the evaluator develops a final adjusted profile based on the client's work history, test results, physical capacities and environmental conditions rating scales. The client then compares the final adjusted profile with the trait requirements of the job choices, identifying those trait levels of his/her job choices which exceed tested levels.

#### 12:15 P.M. to 3:00 P.M.

The client begins his/her second job search in the occupational groups and GOE groups in which the initial ten choices were found. The purpose is to identify additional job choices and/or jobs which have trait requirements within the client's demonstrated ability as shown by the adjusted profile. The client then prioritizes the final choices.

### THURSDAY, 8:30 A.M. to 11:30 A.M.

The final job search is completed, profiling and prioritizing as necessary. The client is instructed to delete the jobs which significantly exceed any trait factors as compared to higher final adjusted profile. He/she is also asked to identify which jobs may be undesirable or unrealistic for other reasons such as employment outlook, availability in the desired geographic location of employment, educational/training requirements, salary expectations, etc.

At the final step of the evaluation the client is assisted in developing a rough draft resume and completing a sample job application along with an interview to determine his/her current level of job seeking skills. The process purposely begins with vocational exploration and ends with steps related to job seeking activities. As a final step to the evaluation the client is requested to write a short critique of the evaluation program. These critiques have been used by the staff in revising the program design to better meet client needs.

#### FRIDAY, 8:30 A.M. to 11:30 A.M.

A 45 minute to one hour planning conference is held with the client, referring counselor, evaluator and other appropriate persons. Recommendations and tentative vocational plans are established.

The final report is not seen as the final product, but is considered to be part of the whole process.

Having had over one year's experience and having provided service to over 100 individuals in this process, positive and negative aspects of the program are evident. The positive outweigh the negative. The process has, as intended, provided the clients with insights which help them to a better understanding of themselves vocationally. The process has proven to be



efficient and relatively comprehensive given the short duration of the evaluation.

Primary shortcomings of the evaluation are those things which typically justify a longer evaluation. For instance, the staff have less exposure to the client, thus, having less opportunity to form opinions especially as they relate to client attitude, etc. In addition, the process allows for physical functioning assessment based on short-term exposure to a variety of work samples and tasks. However, the client is not seen performing any single task requiring a predetermined combination of physical abilities for any extended period. Therefore, comprehensive recommendations regarding physical tolerance can best be achieved through extended evaluation processes. Recommendations regarding physical tolerances are made, qualified by the short duration of the evaluation. When further evaluation of physical tolerance is warranted, consideration is given for referral to the traditional evaluation unit.

An example of a report follows. All work sample and test results are recorded on the M.A.C.E. forms and forwarded to the referral source along with the MVQS data sheet, physical capacities forms, environmental conditions form and other appropriate supportive data.



|    |   | MRCI HAMLET PROJECT-VOCATIONAL EVALUATION UNIT   |  |  |  |  |  |  |  |  |
|----|---|--|--|--|--|--|--|--|--|--|
| ۸. | INCOMING DATA                           | REFERRAL /EVALUATION PLAN REFERRAL DATE:   |  |  |  |  |  |  |  |  |
|    | CLIENT NAME/ADDRESS/PHONE:              |  |  |  |  |  |  |  |  |  |
|    | REFERAL SOURCE/ADDRESS/PHONE:           |  |  |  |  |  |  |  |  |  |
|    | REASON FOR REFERRAL/SPECIFIC QUESTIONS: |  |  |  |  |  |  |  |  |  |
|    |   |  |  |  |  |  |  |  |  |  |
|    | DOCUMENTS/TEST SCORES INCLUDED          | with REFERRAL:   |  |  |  |  |  |  |  |  |
|    | DOT JOBS OF SPECIAL INTEREST:           |  |  |  |  |  |  |  |  |  |
|    | GOE SUBGROUP OF SPECIAL INTERES         | iT:  |  |  |  |  |  |  |  |  |
|    | DOT OCCUPATIONAL GROUPS OF SPEC         | HAL INTEREST:  |  |  |  |  |  |  |  |  |
|    | CLIENT ASSETS:                          |  |  |  |  |  |  |  |  |  |
|    | CLIENT LIMITATIONS:                     |  |  |  |  |  |  |  |  |  |
|    |   |  |  |  |  |  |  |  |  |  |
| з. | EVALUATION PLAN (Items 1-13 are         | e routinely provided; other items are provided as planned)   |  |  |  |  |  |  |  |  |
|    | EVALUATION DATES:                       | то   |  |  |  |  |  |  |  |  |
|    | NEEDS DATE PROVIDED ITEM                | ITEM DESCRIPTION   |  |  |  |  |  |  |  |  |
|    | 1                                       | MVQS DATA SHEET (Work History Analysis; Évaluative Data Synthesis; Cilent Vocational Profile; Specific Joh Possibilities).   |  |  |  |  |  |  |  |  |
|    | 2                                       | GOE OCCUPATIONAL INTERVIEW (Occupational Interests, preferences, tolerances, specific jobs of special interest)  |  |  |  |  |  |  |  |  |
|    | 3                                       | WIDE RANGE ACHIEVEMENT TEST (Academic Achievement; School Benefits)  |  |  |  |  |  |  |  |  |
|    | 4                                       | BENNETT TEST OF MECHANICAL COMPREHENSION (Mech Comprehension)  |  |  |  |  |  |  |  |  |
|    | 5                                       | REVISED MINNESOTA PAPER FORM BOARD (Form Perception)   |  |  |  |  |  |  |  |  |
|    | 6                                       | MINNESOTA CLERICAL TEST (Clerical Perception)  |  |  |  |  |  |  |  |  |
|    | 7                                       | BENNETT HANDTOOL DEXTERITY TEST (Handtool Dexterity)   |  |  |  |  |  |  |  |  |
|    | 8                                       | MINNESOTA RATE OF MANIPULATION (Manual Dexterity)  |  |  |  |  |  |  |  |  |
|    | 9                                       | PURDUE PEGBOARD (Finger Dexterity)   |  |  |  |  |  |  |  |  |
|    | 10                                      | JVS # 20: GROMMET ASSEMBLY (Eye-hand-foot Coordination)  |  |  |  |  |  |  |  |  |
|    | 11                                      | JVS # 12: COLLATING LEATHER SAMPLES (Color/texture Discrimination)   |  |  |  |  |  |  |  |  |
|    | 12                                      | PHYSICAL CAPACITIES INTERVIEW (Strength, mobility factors, sensory factors)  |  |  |  |  |  |  |  |  |
|    | 13                                      | ENVIRONMENTAL CONDITIONS INTERVIEW (Location preference, tolerance to various job  |  |  |  |  |  |  |  |  |
|    |   | environmental situations)  |  |  |  |  |  |  |  |  |
|    | 14 15 16                                | OTHER ASSESSMENTS  CAREER ASSESSMENT INVENTORY (General Occupational Preferences)  MINNESOTA IMPORTANCE QUESTIONNAIRE (Reinforcer Needs)  JVS # 53: PATROLL COMPUTATION (Math) |  |  |  |  |  |  |  |  |
|    | 17                                      | JVS # 36: LOCK ASSEMBLY (Spatial Perception) JVS # 41: PROOFREADING (Clerical Perception)  |  |  |  |  |  |  |  |  |
|    | 19                                      | JVS # 52: ADDING MACHINE (Clerical Perception) TIMEO TYPING SKILLS TEST (Typing speed; Clerical Perception)  |  |  |  |  |  |  |  |  |
|    | 21                                      | VALPAR # 4: UPPER EXTREMITY RANGE OF MOTION (Reaching Range) JOB SEEKING SKILLS ASSESSMENT (FIIIing out Applications, etc.)  |  |  |  |  |  |  |  |  |
|    | 23                                      | WORK HABITS INTERVIEW (Attendance, Punctuality, Grooming, etc) SITUATIONAL ASSESSMENT (As specified below)   |  |  |  |  |  |  |  |  |
|    | 24                                      | 9.<br>8. (As specified below)  |  |  |  |  |  |  |  |  |
|    |   | b.   |  |  |  |  |  |  |  |  |
|    |   |  |  |  |  |  |  |  |  |  |
| ,  | Signatures:                             |  |  |  |  |  |  |  |  |  |
|    | (Counselor)                             | (Date) (Client) (Date) (Evaluator) (Date)  |  |  |  |  |  |  |  |  |
|    |   | , , , , , , , , , , , , , , , , , , ,  |  |  |  |  |  |  |  |  |
|    |   | Figure 4   |  |  |  |  |  |  |  |  |



## The McCroskey Vocational Quotient Scale (MVQS) DATASHEET

| Last Name  Street  City  Date of Birth  Leducation/Training  Circle Highest Grade Completed 1 2 3 4 5 6 7 8 9 10 11 12  Name and Location of Post-Security  Special Skills  Significant Work History: Those ignificant Work History". Other w. 1. Job title | ondary Schooling          | el Source/Reason<br>High Sch<br>/oc/Tech<br>23           | County  nool Graduate: Y N  Undergraduate 1 2 3 4  Field of Study | Si                         | Greduate Sch.<br>12345                     | Social Security No.  Telephone  Zip Code  GED Certificate: Y N  Postgrad. 1 2  Degree/Date |
|---|---------------------------|--|---|----------------------------|--|--|
| City  Date of Birth  Education/Training  Circle Highest Grade Completed 1 2 3 4 5 6 7 8 9 10 11 12  Name and Location of Post-Sec   | ondary Schooling          | High Sch<br>/oc/Tech                                     | n for Referral  nool Graduate: Y N  Undergraduate 1 2 3 4         | Si                         | arte<br>Graduata Sch.<br>12345             | Zip Cods  GED Certificate: Y N  Postgrad. 1 2  |
| Date of Birth  Education/Training  Circle Highest Grade Completed 1 2 3 4 5 6 7 8 9 10 11 12  Name and Location of Post-Secons  Special Skills  Significant Work History: Those gnificant Work History", Other w  | ondary Schooling          | High Sch<br>/oc/Tech                                     | n for Referral  nool Graduate: Y N  Undergraduate 1 2 3 4         |                            | Graduate Sch.<br>12345                     | GED Certificate: Y N Postgrad. 1 2   |
| Education/Training  Circle Highest Grade Completed 1 2 3 4 5 6 7 8 9 10 11 12  Name and Location of Post-Sec  Special Skills  Significant Work History: Those publicant Work History", Other w  | ondary Schooling          | High Sch<br>/oc/Tech                                     | n for Referral  nool Graduate: Y N  Undergraduate 1 2 3 4         |                            | Graduate Sch.<br>12345                     | GED Certificate: Y N Postgrad. 1 2   |
| Education/Training  Circle Highest Grade Completed 1 2 3 4 5 6 7 8 9 10 11 12  Name and Location of Post-Sec  Special Skills  Significant Work History: Those purificant Work History", Other w   | ondary Schooling          | High Sch<br>/oc/Tech                                     | nool Graduate: Y N<br>Undergraduate<br>1234                       | 1                          | Greduate Sch.<br>12345                     | Postgrad.<br>1 2   |
| Circle Highest Grade Completed 1 2 3 4 5 6 7 8 9 10 11 12 Name and Location of Post-Sec Special Skills Significant Work History: Those politicant Work History", Other w  | 1<br>ondary Schooling     | /oc/Tech   | Undergraduate<br>1 2 3 4  | 1                          | Greduate Sch.<br>12345                     | Postgrad.<br>1 2   |
| 1 2 3 4 5 6 7 8 9 10 11 12  Name and Location of Post-Sec  Special Skills  Significant Work History: Those pulificant Work History", Other w  | 1<br>ondary Schooling     |  | 1234  | 1                          | Greduate Sch.<br>12345                     | Postgrad.<br>1 2   |
| Special Skills<br>Significant Work History: Those<br>pulificant Work History", Other w  |                           |  | Field of Study  | Length                     |  |  |
| Significant Work History: Those gnificant Work History", Other w  |                           |  |   |                            |  |  |
| Significant Work History: Those initioant Work History". Other w  |                           |  |   |                            |  |  |
| Significant Work History: Those gnificant Work History", Other w  |                           |  |   |                            |  |  |
| 1. Job title  | See disposition according | c training require<br>be listed at the<br>Specific Tasks | ements (SVP) were met folk<br>bottom of this page under t         | owed by at<br>he "Other" o | least six full mont<br>category. List jobs | ths on-the-job experience co-<br>in reverse chronology and de<br>Mo/Yr Salary              |
|   |                           |  |   |                            | Ended;                                     |  |
| imployer Name/Address   |                           |  |   |                            | Began;                                     | •  |
|   |                           |  |   |                            |  | Reason for Leaving   |
| . Job Title   |                           | Specific Tasks   |   |                            |  | Mo/Yr Salary   |
| mployer Name/Address  |                           |  |   |                            | Ended:<br>Begen:                           | •  |
|   |                           |  |   |                            |  | Resson for Leaving   |
| . Job title   |                           | Specific Tasks   |   | <del></del>                |  | Mo/Yr Salary   |
| mployer Name/Address  | •                         |  |   |                            | Ended:<br>Began:                           | •  |
|   |                           |  |   |                            |  | Reseon for Lesving   |
| ther Jobs/Experiences   | Spec                      | ific Tasks/Skills /                                      | Acquired  |                            | Length :                                   | Salary Why Laft  |

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Figure 5

SECTION 3: Profiling DPT ĢĘD Aptitudes (APT) (low) (high) Селота Стаститиваност D.Q.T. Title (Industry) D.O.T. Code Q K Lingth A. SIĞNIFIÇANT A1.1 WORK HISTORY A1.2 1. Individuat jobs A1.3 2. Acrom Profiles A1.4 A1.5 A1.5 A2 B. SIGNIFICANT 81 **EVALUATIVE DATA** 82 83.1 1. Primary 2. Şeçöndery B3.2 3. Other ₿4 4. Across Profiles C. ADJUSTED PROFILE, based on Measurement Assisted Clin-ical Evaluation, MACE = (AZ/84 + Clinic'i Juggm'i) Č D. VOCATIONAL 01 POSSIBILITIES Đ2 ÖΞ **D4** Ď5 E. OTHER Εī PROFILING Ē2 Ę3 Ë4 E5



| Γ                 |                | Dhi     | iléal  |  |              |                         |         |              |              |         |          |                                | Ī        |                       |                              |              |          |               |              |          |          |   | <u> </u>     | =:::                        | -  |      | ₩.      |          |              |          | _       |          | T |                     |   |    |              |   | <u> </u>   |              | Т        |         |          |      |          |                       | Τ |     |                 |       | -                 |  |  |  |  |  |  |
|-------------------|----------------|---------|--|--|--------------|-------------------------|---------|--------------|--------------|---------|----------|--------------------------------|----------|-----------------------|------------------------------|--------------|----------|---------------|--------------|----------|----------|---|--------------|-----------------------------|--|------|---------|----------|--------------|----------|---------|----------|---|---------------------|---|----|--------------|---|------------|--------------|----------|---------|----------|------|----------|-----------------------|---|-----|-----------------|-------|-------------------|--|--|--|--|--|--|
|                   |                |         | ds (P  | Ō)   |              |                         | Ç       | Envi<br>Ondi |              |         |          |                                |          |                       | W                            | i prik       | Απiv     | ati <b>es</b> | (WA          | \j       |          | act.kom                                     |              |                             |  | Worl | t Sit   | ulti     | ens (1       | NS)      |         |          |   | Staler Verneties    |   |    |              |   | VQ<br>otel |              |          |         | DVČ      | Nous |          |                       |   |     | ik Gri<br>Jda t |       |                   |  |  |  |  |  |  |
| Talight Section 1 | Climby Ballery |         | Here we have been a supplementable of the property of the supplementable of the suppleme | を開発している。<br>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |              | Indoors, Outdoors, Both |         |              |              |         |          | Adverse Atmospheric Conditions | _        | Communication of DATA | e)doed make paramon semilang | _            | _        | =             | =            | _        |          | Recentles in the opinible work and state of |              | 中華を開ける日間には、中華の人、中華の日間にはなってい | ALLEGO HT THE THE WASHINGTON IN BUILDING STORY OF THE STO | ==   |         |          |              |          |         |          |   | Vocational Guillant |   |    | 1            |   |            |              |          |         |          |      |          | Vocations<br>Quotiens |   |     | re<br>lai       |       |                   |  |  |  | Occupational Exploration (GOE, 1979) published by the U.S. DOL provides the GOE Work groups structure. |  |  |
| P <u>C</u>        | PD<br>2        | PD<br>3 | PĎ<br>4  | PD<br>5  | PD<br>6      | EC<br>1                 | EC<br>2 | EC<br>3      | EC<br>4      | ĘC<br>5 | EÇ<br>6  | EC<br>.7                       | WA<br>1a | WA<br>15              | WA<br>Za                     | WA<br>Zb     | WA<br>3a | WA<br>35      | WA<br>4a     | WA<br>45 | WA<br>51 | WA<br>Sb                                    | W5<br>D      | WS<br>F                     | W\$  | WŠ   | WS<br>M | WS<br>P  | Ws<br>B      | WS<br>S  | WS<br>T | WS<br>V  |   |                     | ş | νū |              |   | Ť          | va           |          |         | (        | ργα  |          |                       |   | GOE | Wor             | k Gro | up -              |  |  |  |  |  |  |
| L                 |                | _       |  |  | 4            | _                       |         |              |              |         |          |                                |          |                       |                              |              |          | _             |              |          |          |   | _            |                             |  |      |         |          |              |          |         |          |   |                     |   |    |              |   |            |              |          |         |          | Ī    |          |                       |   |     |                 |       | T                 |  |  |  |  |  |  |
| L                 | _              |         |  |  | _            |                         |         |              |              |         | <u>.</u> |                                |          |                       | _                            |              |          |               |              |          |          |   |              |                             |  |      |         |          | _            |          |         |          |   |                     |   | L  |              |   |            |              |          |         |          |      |          |                       |   |     |                 |       |                   |  |  |  |  |  |  |
| _                 |                | _       |  |  | -            | _                       |         |              |              |         |          |                                | L        |                       | _                            |              |          |               | _            | _        | _        |   |              | _                           | _  | _    | L       | L        | Ļ            | _        | L       |          |   | _                   | _ | _  |              |   |            | $\downarrow$ |          |         |          |      |          |                       |   |     | J               |       |                   |  |  |  |  |  |  |
| -                 | -              |         |  |  | 4            | -                       |         |              | _            |         |          | _                              |          |                       |                              | _            | _        |               | $\dashv$     |          |          |   |              |                             |  | _    | -       | -        | <u> </u>     | _        | -       |          |   |                     | L |    |              |   | 4          | 1            | 1        | _       | _        | 1    | <u> </u> | _                     |   |     |                 |       |                   |  |  |  |  |  |  |
| -                 |                |         |  | -  | -            |                         | -       | _            | -            |         |          |                                |          | -                     | _                            | _            | _        |               |              | -        | _        | _   |              | ļ                           |  | _    |         |          | <u> </u>     |          |         | L        | L |                     | L | _  | _            |   |            |              | _        | 1       | _        | -    |          |                       |   |     | 1               |       | <u> </u>          |  |  |  |  |  |  |
| H                 |                | _       |  | $\dashv$   | +            |                         |         | -            |              |         | _        |                                |          | _                     | -                            | -            |          | _             | _            | _        |          | _   |              |                             | _  | _    | _       | L        | <u> </u>     | _        | L       | L        | L |                     | - | _  |              | _ | _          | 4            | _        |         | -        | 1    | -        |                       |   |     | 1               | _     |                   |  |  |  |  |  |  |
| -                 |                |         |  | ┥  | +            | 1                       | -       | =            | -            |         |          |                                |          | <br>  <br>            | _                            | +            | _        |               | _            |          |          | _   | _            | _                           |  |      | _       | _        | <u> </u>     |          | _       | _        | _ |                     |   | _  |              |   | _          | 4            | +        | 1       | -        | ļ    |          | L                     |   |     |                 | 4     | $\bot$            |  |  |  |  |  |  |
| H                 |                |         |  | -  | +            |                         |         |              |              |         |          |                                |          | -                     | -                            | +            | +        | -             | +            | -        | _        | _   | _            |                             | _  | _    |         | <u> </u> | -            | _        | _       | _        |   |                     | _ |    |              | + | +          | +            | +        | +       | -        | ╀    | -        |                       |   | -   | _               | -     | +                 |  |  |  |  |  |  |
| F                 |                |         | 1  | 7  | +            | 1                       | 1       |              | 1            |         |          |                                | H        |                       | _                            | -            | +        | +             | +            |          | _        | +   | _            | -                           |  | -    |         |          | -            | _        |         |          |   |                     | _ | -  |              | - | +          | +            | +        | ╁       | -        | ╁    | +        |                       |   |     |                 | +     | +                 |  |  |  |  |  |  |
| -                 |                |         |  |  | _            |                         |         |              | +            | 1       |          |                                |          | $\dashv$              | +                            | +            | +        |               | 1            | -        | -        | _   |              |                             | -  |      |         | -        | -            | _        | _       |          |   |                     |   | _  |              | + | +          | +            | +        | +       | +        | +    | -        | L                     | Н | +   | -               | +     | +-                |  |  |  |  |  |  |
|                   |                | -       | 1  | $\dagger$  | 1            | 1                       | 1       |              |              | 7       |          |                                |          |                       |                              | +            | +        | +             |              | 7        | -        | -   |              | -                           |  |      |         |          | <del> </del> |          | _       | _        | - |                     |   |    | -            | + | +          | +            | +        | $\perp$ | +        |      | ļ        | $\vdash$              |   | -   | +               | +     | +                 |  |  |  |  |  |  |
| Γ                 |                |         | 1  | T  | 1            | 1                       |         |              |              |         |          |                                |          |                       |                              | 1            |          | 7             |              | -        |          | 7   |              |                             |  |      |         |          |              |          | -       | <u> </u> |   |                     |   | _  |              | 1 |            | +            | +        |         | +-       |      |          |                       |   | +   | +               | +     | +                 |  |  |  |  |  |  |
|                   |                |         |  |  |              |                         |         |              |              |         |          |                                |          |                       | 7                            | 1            | 1        | 7             |              |          | _        | 1   |              |                             |  |      |         | Г        |              |          | _       |          |   |                     |   |    |              | + | +          | +            |          | t       | $\vdash$ | -    | -        |                       |   | +   | +               | +     | $\dagger$         |  |  |  |  |  |  |
|                   |                |         |  |  |              |                         |         |              |              |         |          |                                |          |                       |                              |              |          |               |              |          |          | 7   | 1            |                             |  |      |         | -        |              |          | _       | -        |   |                     | - |    |              | 7 | +          | +            | †        |         | -        | T    |          |                       |   |     | +               | +     | $\dagger$         |  |  |  |  |  |  |
| L                 |                |         |  | Ţ  | I            |                         |         |              |              |         |          |                                |          |                       |                              |              |          |               |              |          |          |   |              |                             |  |      |         |          |              |          |         |          |   |                     |   |    |              | 1 | +          | +-           | T        |         | -        |      |          |                       | i | +   | +               | +     | $\dagger \dagger$ |  |  |  |  |  |  |
| L                 |                |         |  |  | $\downarrow$ |                         |         |              |              |         |          |                                |          |                       |                              |              |          |               |              |          |          |   |              |                             |  |      |         |          |              |          |         |          |   |                     |   |    |              |   |            |              | Ī        |         | 1        |      |          |                       |   |     | -               |       | Ħ                 |  |  |  |  |  |  |
| L                 |                |         | _  |  | $\downarrow$ |                         | _       | _            | $\downarrow$ | _       |          |                                |          |                       |                              |              |          |               |              |          |          |   |              |                             |  |      |         |          |              |          |         |          |   |                     |   |    |              |   |            |              |          |         |          |      |          |                       |   |     |                 | 1     | П                 |  |  |  |  |  |  |
| L                 | -              |         | _  |  | 4            |                         | -       |              |              | _       |          |                                | _        |                       | $\downarrow$                 | $\perp$      | -        | $\downarrow$  | $\perp$      |          |          |   |              |                             |  |      |         |          |              |          |         |          |   |                     |   |    |              |   |            |              |          |         |          |      |          |                       |   |     |                 |       |                   |  |  |  |  |  |  |
| _                 | -              | 4       | +  | _  | 1            | -                       | 4       | _            | 1            |         | _        |                                |          | 4                     |                              |              | 1        | $\downarrow$  | _            |          |          | 4   | _            |                             | _  |      |         |          |              |          |         |          |   |                     |   |    |              |   |            |              |          |         |          |      |          |                       |   |     |                 |       |                   |  |  |  |  |  |  |
|                   |                | 4       | _  | -  | $\downarrow$ | 4                       | -       | _            | 1            | -       |          |                                | 4        | 4                     | -                            | _            | _        | 4             | $\downarrow$ | 4        |          |   | _            |                             |  |      |         |          | Ц            |          | _       |          | Ц |                     |   |    |              |   |            |              |          | Ĺ       |          |      |          |                       |   |     |                 |       |                   |  |  |  |  |  |  |
|                   | -              | 4       | -  | _  | +            | +                       | +       | +            | +            | +       | 1        | 4                              | +        | +                     | +                            | -            | $\perp$  | +             | +            | _        | +        | -   | _            | _                           |  | _    |         |          |              |          | _       |          |   |                     |   |    |              | 1 |            |              |          |         |          |      |          |                       |   |     |                 | Ţ     |                   |  |  |  |  |  |  |
|                   |                | +       | +  | +  | +            | -                       | +       | +            | -            | -       | 4        | -                              | 4        | -                     | +                            | +            | +        | +             | +            | 4        | 4        | $\downarrow$                                | -            | +                           | -  | _    | _       |          |              |          | _       |          |   |                     |   |    |              | 1 | -          | <u> </u>     | <u> </u> |         | _        |      |          |                       |   | 1   | 1               |       | Ц                 |  |  |  |  |  |  |
|                   | _              | _       | +  | +  | +            | $\downarrow$            | +       | +            | _            | +       | -        | 4                              | +        | +                     | +                            | $\downarrow$ | -        | 4             | +            | 4        | +        | _   | $\downarrow$ |                             |  |      | 4       |          |              | 4        |         | _        | Ц |                     |   | _  | $\downarrow$ | _ | _          | L            | -        | L       |          | L    |          | $\downarrow$          |   |     | -               | 1     | $\coprod$         |  |  |  |  |  |  |
|                   | 1              | -       | +  | +  | +            | 1                       | +       | +            | +            | +       | +        | 4                              | +        | +                     | +                            | +            | +        | +             | +            | +        | +        | +   | +            | +                           |  | -    | _       |          |              | $\dashv$ | 4       |          |   |                     |   | _  | +            | 1 | +          | <u> </u>     | -        | L       | _        | L    |          |                       |   | +   | -               | -     | $\dashv$          |  |  |  |  |  |  |
|                   |                |         |  |  | ļ            |                         |         |              |              |         |          |                                |          |                       |                              |              |          |               |              |          |          |   |              |                             |  |      |         |          |              |          |         |          |   |                     |   |    |              |   |            |              |          |         |          |      |          |                       |   |     |                 |       |                   |  |  |  |  |  |  |
|                   |                |         |  |  | ו            | 5                       |         |              |              |         |          |                                |          |                       |                              |              |          |               |              |          |          |   |              |                             |  |      |         |          |              |          |         |          |   |                     |   |    |              |   |            |              |          |         |          |      |          |                       |   |     |                 |       |                   |  |  |  |  |  |  |



#### TABLE 1: SVQ Weights

| VARIABLES  | C-Level Guide: | 1    | 2         | 3    | 4         | 5                            | 6    | 7    | 8     | 9     |
|--|----------------|------|-----------|------|-----------|------------------------------|------|------|-------|-------|
| SVP-SPECIFIC VOCATIONAL PREPARATION                    |                | 1.29 | 2.57      | 3.86 | 5.14      | 6.43                         | 7.72 | 9.00 | 10.29 | 11.57 |
| D DEALING WITH DATA                                    |                |      |           |      |           |                              |      |      |       |       |
| D-DEALING WITH DATA P-DEALING WITH PEOPLE              |                | 1.03 | 2.05      | 3.08 | 4.10      | 5.13                         | 6.15 | 7.18 | 8.21  |       |
| T-DEALING WITH THINGS                                  |                | 1.32 | 2.65      | 3.98 | 5.30      | 6.63                         | 7.96 | 9.28 | 10.61 |       |
| I-beschie Will Imings                                  |                | 1.13 | 2.26      | 7,39 | 4.52      | 5.65                         | 6.78 | 7.91 | 9.04  |       |
| R-REASONING  |                | 1.09 | 2.17      | 3.26 | 4.34      | 5.43                         | 6.51 |      |       |       |
| M-MATH   |                | .92  | 1.85      | 2.77 | 3.69      | 4.61                         | 5.54 |      |       |       |
| L-LANGUAGE   |                | 1.06 | 2.12      | 3.18 | 4.25      | 5.31                         | 6.37 |      |       |       |
|  |                |      |           |      |           |                              | 0.01 |      |       |       |
| G-GENERAL LEARNING ABILITY                             |                | .67  | 1.34      | 2.01 | 2.68      | 3.35                         |      |      |       |       |
| V-VERBAL APTITUDE                                      |                | .77  | 1.54      | 2.31 | 3.09      | 3.86                         |      |      |       |       |
| N-NUMERICAL APTITUDE                                   |                | 1.07 | 2.14      | 3.21 | 4.28      | 5.35                         |      |      |       |       |
| S-SPATIAL PERCEPTION                                   | 1.07           | 2.13 | 3.20      | 4.26 | 5.33      |                              |      |      |       |       |
| P-FORM PERCEPTION                                      |                | 1.18 | 2.36      | 3.55 | 4.73      | 5.99                         |      |      |       |       |
| Q-CLERICAL PERCEPTION                                  |                | 1,19 | 2.18      | 3.27 | 4.36      | 5.45                         |      |      |       |       |
| K-MOTOR COORDINATION                                   |                | 1,17 | 2.34      | 3.52 | 4.69      | 5.86                         |      |      |       |       |
| F-FINGER DEXTERITY                                     |                | .75  | 1.50      | 2.24 | 2.99      | 3.74                         |      |      |       |       |
| M-MANUAL DEXTERITY                                     | •              | 1.09 | 2.18      | 3.28 | 4.37      | 5.46                         |      |      |       |       |
| E-EYE-HAND-FOOT COORDINATION<br>C-COLOR DISCRIMINATION |                | 1.44 | 2.87      | 4.31 | 5.74      | 7.18                         |      |      |       |       |
| C-COLOR DISCRIMINATION                                 |                | 1.24 | 2.47      | 3.71 | 4.95      | 6.19                         |      |      |       |       |
| PO1-STRENGTH   |                | 1.51 | 3.03      | 4.54 | 6.06      | 7.57                         |      |      |       |       |
| EC1-INDOORS/OUTDOORS/BOTH                              |                | 1.24 | 2.47      | 3.71 |           |                              |      |      |       |       |
| PD2 Climbing and/or balancing                          | + 2.25         |      |           |      |           |                              |      |      |       |       |
| PD3 Stooping, kneeling, crouching                      | + 1.67         | - 1  |           |      |           |                              |      |      |       |       |
| PD4 Reaching, handling, fingering                      | + 2.82         | - 1  |           |      |           |                              |      |      |       |       |
| PD5 Talking and/or hearing                             | +3.11          |      |           |      |           |                              |      |      |       |       |
| PD6 Seeing   | + 3.62         | (5)  | TOUGTIONS | · ·  |           |                              |      |      |       |       |
| EC2 Extreme cold                                       |                |      |           |      | the SVQ a |                              |      | -    |       |       |
| EC3 Extreme heat                                       | + .76<br>+ .86 | l l  |           |      |           | each variab                  |      |      |       |       |
| EC4 Wet and/or humid                                   | 43             | I    |           |      |           | hould be us<br>. In Table 2, |      | _    |       |       |
| EC5 Noise and/or vibration                             | + .84          |      |           |      |           | n laberz,<br>ne "C" Prof     |      |      |       |       |
| EC6 Hazards  | + 2.38         | 1    |           |      |           | ner table, no                |      |      |       |       |
| EC7 Adverse atmospheric condition                      | + .55          |      |           |      |           | table should                 | -    |      |       |       |

TABLE 2: DVQ WEIGHTS 1A Dealing with things/objects -.78 18 Communicating data + 2.37 2A Business contacts with people + 1.98 28 Scientific/technical work + 13.53 3A Routing/concrete/organized -2.53 38 Abstract/creative work +8.31 4A Work for good of people + 4.44 48 Deal with processes/machines + 2.60 5A Prestigious/esteemed work + 4.62 58 Tangible, productive work + 6.55 D Directing/controlling/planning + 6.48 F Interpret feelings/ideas + 4.53 I Influence opinions/attitudes + 5.25 J Subjective judgements/decisions + 2.77 M Objective judgments/decisions + 5.04 P Deal with people + 2.17 R Repetitive, set procedures -3.10 S Stress/emergency/dangerous/risky + 2.52 T Precision work + 4.69 V Varied duties/tasks + 3.92

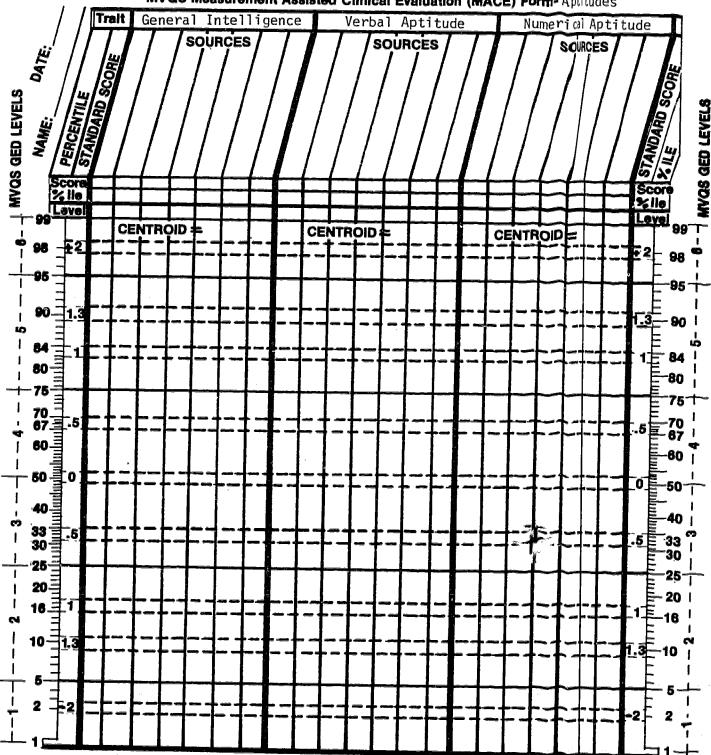
Finally, circled weights in each table should be algebraically summed to produce a score for each which should be recorded where indicated in the box below. The constants are then added to produce the SVQ and DVQ.

| TABLE 1 | TABLE 2 |                       |
|---------|---------|-----------------------|
| ( )     | (       | )                     |
| + 2.93  | +41.50  |                       |
|         | DVQ:    |                       |
|         |         |                       |
|         | ( )     | ( ) (<br>+2.93 +41.50 |



57

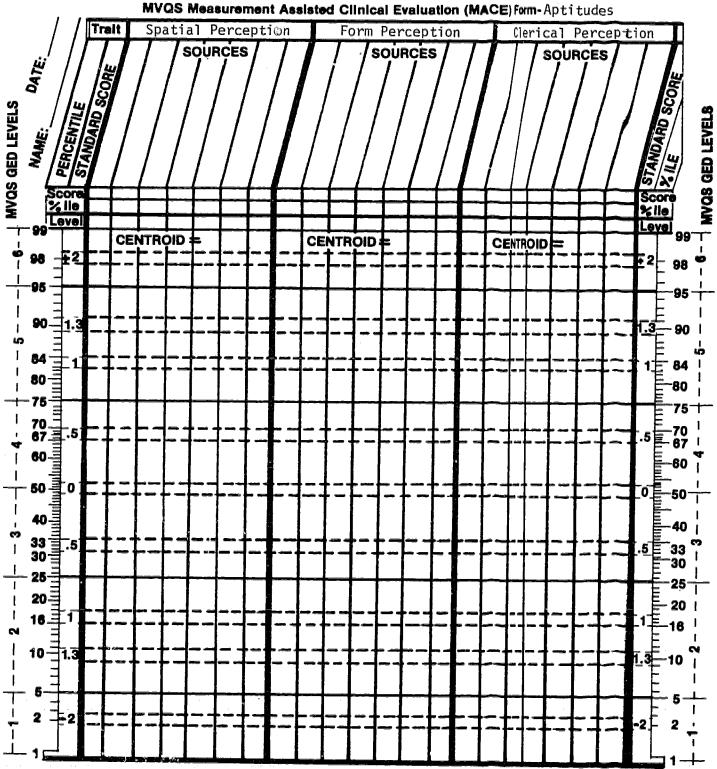
MVQS Measurement Assisted Clinical Evaluation (MACE) Form- Aptitudes



Level refers to the MVQS scale to the left or right of the MACE form. Estimate the level to the nearest 10th. Use the multiple estimates for each trait to calculate the trait CENTROID OR AVERAGE. When recording individual estimates and Centroids on the MVQS Datasheet (Section 3-B) drop all decimal (do not round up or down) and record only whole number level estimates. Record individual estimates in row B-1, 2, 3.1, and 3.2 (Best four); Highest across these goes in B-4 row; Centroids go in row immediately below B-4. Use all data above the C- Profile along with Clinical Judgement to construct the final C-Profile from which Vocational Quotients are calculated and used to access the data in the Encyclopedia of Job Requirements (EOJR).

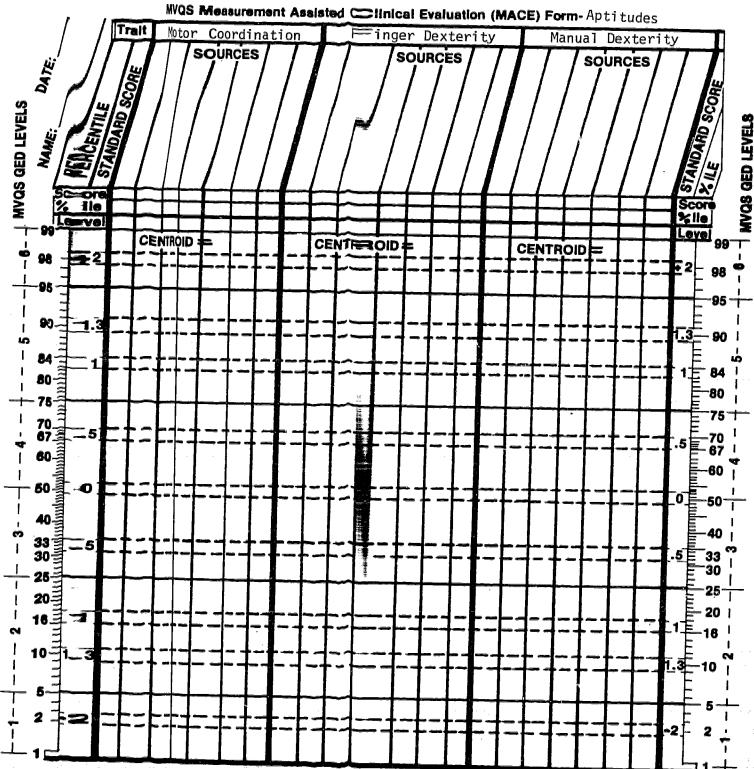
Figure 6



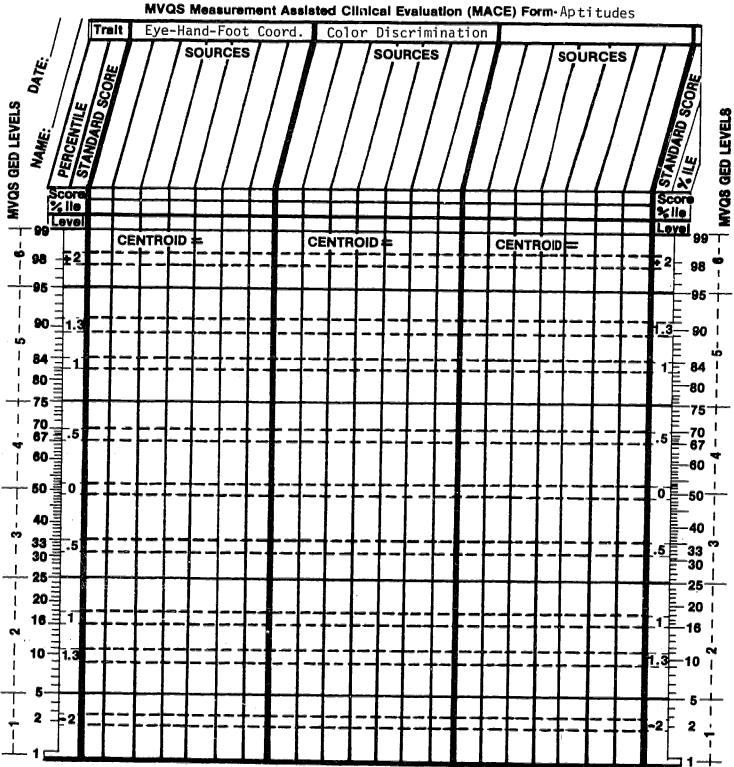


Level refers to the MVQS scale to the left or right of the MACE form. Estimate the level to the mearest 10th. Jise the multiple estimates for each trait to calculate the trait CENTROID OR AVERAGE. When recording ndividual estimates and Centroids on the MVQS Datasheet (Section 3-B) drop all decimals (do not round up or down) and record only whole number level estimates. Record individual estimates in rows B-1, 2, 3.1, and 3.2 (Best four); Highest across these goes in B-4 row; Centroids go in row immediately below B-4. Use all late above the C- Profile along with Clinical Judgement to construct the final C-Profile from which Vocational huotients are calculated and used to access the data in the Encyclopedia of Job Requirements (EOJR).



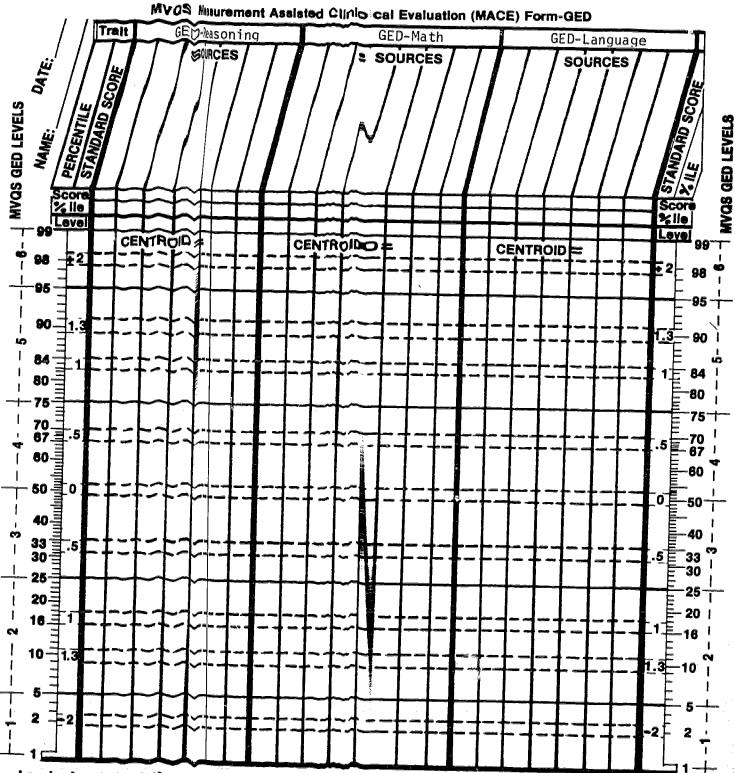


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Level refers to the MVQS achieves the left or right of the a MACE form. Estimate the level to the nearest 10th. Use the multiple estimates for ath trait to calculate the transit CENTROID OR AVERAGE. When recording individual estimates and Centrolion the MVQS Datashed 2 (Section 3-B) drop all decimals (do not round up or down) and record only whole number level estimates. Reflected individual estimates in rows B-1, 2, 3.1, and 3.2 (Best four); Highest across the goes in B-4 row; Centratroids go in row immediately below B-4. Use all data above the C-Profile along the Clinical Judgement to a construct the final C-Profile from which Vocational Quotients are calculated and yello access the data in these Encyclopedia of Job Requirements (EOJR).

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### MVQS Measurement Assisted Clinical Evalumention (MACE) Form-Physical Capacities

```
Factor
           Physical Capacities (PDI-PD6)
Ratings
           PDI: STRENGTH (Differs from minor, incldental occurrences)
1234
               a. Standing:
1234
               b. Walking:
               c. Sitting:
1234
                                                                    lbs. frequently.
                                   lbs. occasionally;
               d. Lifting:
                                   bs. occasionally;
                                                                    lbs. frequently.
               e. Carrying:
                                                                    lbs. frequently.
                                   lbs. occasionally;
               f. Pushing:
                                  hs. occasionally;
                                                                    lbs. frequently.
               g. Pulling:
           PD2: CLIMB/BALANCE (Differs from minor, la incidental occurrences)

a. Body agility to ascend or decend: E ladders, stairs, scaffolding, ramps, poles.
 1234
               b. Body Equilibria to prevent falls con: narrow, slippery, erratically moving surfaces.
 1 2 3 4
            PD3: STOOP/KNEEL/CROUCH/CRAWL (Differs for rom minor, incidental occurrences)
               a. Move body forward and downward by bending waist at spine.
 1 2 3 4
1 2 3 4
               b. Bend legs at knees to come to rest
                                                            on knee or knees.
               c. Bend spine and legs simultaneously
                                                            to move body downward.
 1234
               d. Move about on hands and knees or hands and feet.
 1234
            PD4: REACH/HANDLE/FINGER/FEEL (Differs f rom minor, incidental occurrences)
               a. Extend hand(s) and arm(s) in any da irection with normal range of motion.
 1 2 3 4

    b. Seize, Hold, Grasp, Turn, or otherwise work with hand(s) using gross dexterity.
    c. Pick, Pinch, or otherwise work with in fingers using fine dexterity.

 1234
 1234
                d. Discriminate temperatures, textaures using skin receptors (esp. fingertips)
           PD5: TALK/HEAR (Differs from minor, incloadental occurrences)

a. Ordinary Talking (Express or excharge ideas by means of spoken words as part of job).
b. Other Talking (e.g. Relay messages by phone, counsel clients, give detailed instruc).
 1234
 1 2 3 4
               c. Ordinary Hearing (Perceive nature of sounds by ear(s) as part of job).
 1234
               d. Other Hearing (e.g. Record phone mesessages, tune car engines, listen to clients).
 1 2 3 4
            PD6: SEE (Differs from minor, incidental occur
a. Acuity, Near (See clearly at 20 in ches).
                                                            occurrences)
 1234
 1234
               b. Acuity, Far (See clearly at 20 feet_t).
                c. Depth Perceptim (See in 3-Dimensic on, judge distances/spatial relationships properly).
 1 2 3 4
                d. Field of Vision (See vertical/horiz zontal areas with eyes on fixed point).
 1234
                e. Accommodation (see objects in sharm-p focus at varying nearpoint distances).
 1234
 1 2 3 4
                f. Color Vision (Identify and distings uish colors correctly).
 OVERALL RATINGS: /PDI: 1 2 3 45 /PD2: 0 1 /PD3 0 1 /PD4: 0 1 /PD5: 0 1 /PD6: 0 1 /
 Explanation of rating scales:
 Factor Rating Scale (Pertaining to personal physia cal capacities)
    1 = Could not do or could donly negligible amecount;
                                                                                     Factor Ratings should be
   2 = Could do occasionally (up to 1/3 of time at = work);
3 = Could do frequently (from 1/3 to 2/3 of timese at work);
                                                                                     based upon relevant medical,
                                                                                     psychological, social, ed-
    4 = Could do constantly (more than 2/3 of time - at work).
                                                                                     ucational, vocational, and/or
                                                                                     other pertinent evaluative
 OVERALL RATINGS ((Links Trait capacity data to job - profiles in the
                                                                                     data including client self-
  Encyclopedia of Job Requirements = (McCroskey, 1981)) assessment.

PD1: 1 = Sedentary; 2 = Light; 3 = Medium; 4 = Heavy; 5 = Very Hvy.

((See MVQS Manual (McCroskey & Perkins 1981)) for PD1 level definitions)).
  PD2-PD6: Circle level "1" when one or more facts pors receive a Factor Rating of "3" or Higher.
               Otherwise, circle the "O" level. A "le " level OVERALL indicates "Significant" Tolerance.
```

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#### MVQS Measurement Assisted Clinical Evaluation (MACE) Form-Environmental Conditions

```
Factor
 Ratings Environmental Conditions (EC1-EC7) ((NOTE: Adequate Safeguards should not be assumed)).
           EC1: ENVIRONMENT
                                         NOTE: For OVERALL RATING (3/4 of way down this page), an individ.
1 2 3 4
               a. Inside:
                                                is best suited for inside work if he/she needs to be indoors
1234
               b. Outside:
                                                75% of time or more. Opposite=Outside. Otherwise=Both.
           EC2: EXTREME COLD WITH OR WITHOUT TEMPERATURE CHANGES
 1234
               a. Extreme cold with temperature changes (eg. in & out of ice cream cold storage room).
 1234
               b. Extreme cold without temperature changes (eg. Work in cooler room cutting beef carcasses).
           EC3: EXTREME HEAT WITH OR WITHOUT TEMPERATURE CHANGES

    a. Extreme heat with temperature changes(eg. Charging a furnace; Drive asphalt machine).
    b. Extreme heat without temperature changes(eg. Work close to hot stove, laundry dryers).

1234
           EC4: WET AND/OR HUMID CONDITIONS
1234

    Wet conditions (eg. Load damp clothing into laundry tumblers).

               b. Humid Conditions (eg. Slashing room in cotton-textile mill, run garmet steam-presser).
                                                                      eg.Riveting=130; Tex. Spinning Room=105.
Over 80 db is significant noise level.
           EC5: NOISE AND/OR VIBRATION
               a. Estimated maximum number of decibels:
                                                                     db. Office with tabulating machines=77db.
1234

 b. Vibration (eg. Excavate/transport earth).

                                                                         Inside Sedan in City Traffic=85db.
Manual typewriter=70: Soldering=50db.
           EC6: HAZARDS (Capacity to tolerate dangers to life, health, or bodily injury routinely).
1234

    a. Mechanical (Moving mechanical parts; large machinery with fast moving parts)
    b. Electrical (electrical shock)

1234
1234
              c. Burns (exposure to heat sources in excess of 160 degrees-F; toxic chemicals)
              d. Explosives (dynamite)
1234
1234
              e. Radiant Energy (U-235)
1234
              f. Heights (Working on scaffolding; telephone poles)
           EC7: ATMOSPHERIC CONDITIONS (Tolerance to marked discomfort over time; Differs fm shrt exp).
              a. Fumes (Solid particles generated by condensation from gaseous state-molten metal,etc).
b. Odors (Noxious nontoxic smells-sulfur, etc.).
1234
1234
              c. Dusts (Solid particles gen. by handling, crushing, grinding, of ore, metal, coal,etc).
1234

    d. Mists (Suspended liq. droplets gen. by splashing, foaming, atomizing, etc.).
    e. Gases (eg. carbon monoxide, hydrogen cyanide, ozone, oxides of nitrogen, etc).

1234
1234
1234
              f. Poor Ventilation (Insuf. or excessive movement of air causing feeling of suffocation).
1234
              g. Other:
OVERALL RATINGS: /EC1: 1 2 3 /EC2: 0 1 /EC3: 0 1 /EC4: 0 1 /EC5: 0 1 /EC6: 0 1 /EC7: 0 1 /
      Explanation of rating scales:
Factor Rating Scale (Pertaining to personal tolerance of Environmental Conditions).

** Could not tolerate or could tolerate only negligible amount;

2 = Could tolerate occasionally (up to 1/3 of time at work);

NOTE: Factor R. based on rele
                                                                                NOTE: Factor Ratings should be
  3 = Could tolerate frequently (from 1/3 to 2/3 of time at work);
                                                                                  based on relevant medical,
                                                                                  psychological, social, ed-
  4 = Could tolerate constantly (more than 2/3 of time at work).
                                                                                  ucational, vocational, and/or
OVERALL RATINGS ((Links Trait capacity data to job profiles in the
                                                                                  other pertinent evaluative
                  data including client self-
       1 = Indoors; 2 = Outdoors; 3 = Both Indoors and Outdoors.
((See MVQS Manual (McCroskey & Perkins, 1981) for clarification on EC1 definition & levels. EC2-EC7: Circle level "1" when one or more factors receive a Factor Rating of "3" or Higher.
           Otherwise, circle the "O" level. A "I" level OVERALL indicates "Significant" Tolerance.
```

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# Mankato Rehabilitation Center, Inc.

15 Map Drive, P.O. Box 328 Mankato, MN 56001 Phone (507) 345-4507 Arne J. Berg, Executive Director

#### **Branch Services**

New Ulm, MN 56073

Phone (507) 354-2758

**Brown-Nicollet Industries** 

HAMLET EVALUATION CENTER

**VOCATIONAL EVALUATION REPORT** 

DATE:

21st North St. & Broadway P.O. Box 894

**Tri-County Industries** 

703 Cory Lane P.O. Box 489 Fairmont, MN 56031 Phone (507) 238-1279 CLIENT: AGE:

MARITAL STATUS:

Low back disability

PRIMARY DISABILITY: SECONDARY DISABILITY:

None listed

**MEDICATIONS:** None

**EDUCATION:** 12 plus 1 year AVTI

**EVALUATION DATES: VOCATIONAL EVALUATOR:** 

REFERRAL SOURCE:

**EVALUATION METHODS:** 

Standardized testing; selected JEVS, and Valpar

situational assessment; evaluator work samples;

observations/impressions.

EVALUATION/PLANNING CONFERENCE: PROCEEDINGS, RECOMMENDATIONS, AND PROGNOSIS

## Proceedings

#### DATE:

PRESENT:

HIGHLIGHTS: Evaluation results were reviewed and discussed. Client evidenced understanding of and general agreement with evaluation findings. This client's strengths, as measured by evaluation results, include: above average spatial perception, form perception, motor coordination, manual dexterity, eye-hand-food coordination and color discrimination. All other aptitudes were shown to be within the average range.

Transferrable skills demonstrated by this client include: mechanical comprehension, ability to work with tools, and motor coordination for working with relatively large parts. Academic skills in the lower average range indicate that his reading, spelling and arithmetic computation are adequate for ordinary needs, but he would need to put forth extra effort if he was going to engage in activities of a technical nature.

No pain behaviors were observed during the evaluation period. vities were primarily sedentary, with only a few minutes of standing required on two different occasions. He only complained about back discomfort on one occasion, as described in this report, section entitled "physical problems."

**UNITED WAY AGENCY** AN EQUAL OPPORTUNITY EMPLOYER ACCREDITED BY THE COMMISSION ON ACCREDITATION OF REHABILITATION FACILITIES

Figure 7

#### Page 2

This client's primary stated vocational goal is to own his own buisness, specifically a billiard parlor. Other occupational choices which he identified included various types of inspection occupations, and working in the solar energy field. Evaluation results indicate potential ability to manage a small business, with training, or to work as an inspector in any one of a variety of fields. No information was readily available covering occupations in the solar energy fields, but he appears to have ability to be able to work in a variety of technical occupations; therefore, this field should be a possibility if he is truly interested. A primary consideration in any occupation would have to be his physical condition, specifically his back; whether he could perform any physical activities would have to be determined by a medical doctor based on the specific requirements on the job.

Although some training is available in small business management, the method of entry for the above-listed occupations is typically through on-the-job training, often in a less responsible position. Additional occupations for which he expressed interest are listed in this report under "current vocational functioning." This is by no means an exhaustive list of what he potentially could do.

## Recommendations

- Client should finish gathering information regarding cost, financing, licensing, and other considerations for owning his own billiard parlor.
- 2. Client should explore career opportunties in the solar heating field, through contact with University, Area Vocational Technical Institutes and other sources.
- Client should investigate career opportunities and methods of entry in quality control and inspection occupations.
- Client should continue to seek other employment.

## <u>Prognosis</u>

The prognosis for this client becoming competitively employed is considered good, based on evaluation results and his stated motivation to work.

#### **VOCATIONAL SUMMARY**

#### Work History

Significant work history reported for includes:

| DOT Code   | Job Title  | <u>Length</u>                           |
|--|--|---|
| 860.681-010<br>921.683-050<br>741.684-026<br>769.687-054<br>663.685-018<br>556.685-082 | Carpenter (mfd. bldgs.) II Industrial-Truck Operator (any) Painter, Spray (any ind.) Woodworking-Shop Hand (woodworking) Molding Cutter (woodworking) Vacuum Plastic-Forming Machine | 1 year<br>2 years<br>1 year<br>6 months |
| 869.684-018<br>667.682-054   | Operator (fabric. plastics prod.) Assembler (mfd. bldgs.; trans. equip.) Radial-Arm Saw Operator (const.; wood)  | 5 years<br>5 years<br>5 years           |

## Current Vocational Functioning





#### Page 3

Client's overall performance and behavior indicate competitive employability. Vocational possibilities considered by this client during the evaluation include the following:

|                | DOT Code   | <u>Job Title</u>   |
|----------------|--|--|
| 2.<br>3.<br>4. | 736.281-010<br>410.674-010<br>860.261-010<br>822.261-018 | Gun Examiner (firearms) Animal Caretaker (any ind.) Carpenter Inspector (any ind.) Maintenance Inspector (tel. tel.) |
| 6.             | 736.387-010<br>919.687-018                               | Inspector, Assembly (firearms) Safety Inspector Truck (auto. ser.; motor trans.)                                     |
|                | 956.387-010<br>807.267-010                               | Building Equipment Inspector (light, heat, power) Shop Estimator (auto. ser.)  |
|                | 769.687-026<br>159.224-010                               | Inspector (woodworking) Animal Trainer (amuse. rec.)   |

### Review of Vocational Possibilities under Consideration:

The client's primary interest continued to be self-employment, specifically owning a billiard parlor. This specific job was not found in the D.O.T., but appears to have duties not entirely unlike other managerial occupations for which he demonstrated potential ability. Of the above-listed occupations, evaluation results indicated that he has ability to perform any of them with a concern for the physical requirements of some. These include numbers 1, 2, 3, 4, and 9, all of which show medium physical demands. According to available medical information he is restricted to light physical activities at this time.

### VOCATIONAL PROFILE

### Specific Vocational Preparation (SVP)

Specific Vocational Preparation (SVP) is the amount of time required to learn the techniques, acquire information, and develop the facility needed for average performance in a specific job-worker situation. This training may be acquired in a school, work, military, institutional, or a vocational environment. SVP does not include orientation training required of even fully qualified workers to become accustomed to the special conditions of any new job. Nor does it generally include that part of college training which is not organized around a specific vocational objective (e.g., typically the first two years of college).

Based on the information collected, analyzed, and synthesized during the client's evaluation at the Hamlet Evaluation Center, the SVP length indicated by the triple XXX's in the table below appear to be the highest level likely to result in a successful training outcome. SVP lengths of shorter duration will generally increase the probability of success, while SVP lengths of longer duration will generally decrease the probability of a successful training-related outcome.



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#### Page 4

| <u>Level</u> | SVP Length Involved (often decreased by prior training/related work |
|--------------|---|
|              | history)  |
|              | Over 10 years   |
| 8 =          | Over 4 years up to and including 10 years.                          |
| XXX 7 =      | Over 2 years up to and including 4 years.                           |
| 6 =          | Over 1 year up to and including 2 years.                            |
| 5 =          | Over 6 months up to and including 1 year.                           |
| 4 =          | Over 3 months up to and including 6 months.                         |
| 3 ≈          | Over 30 days up to and including 3 months.                          |
| 2 ≈          | More than short demonstration only up to and including 30 days.     |
| 1 =          | Short demonstration only.   |
|              | <del>-</del>  |

SVP training options which appear most likely to produce a successful training-related outcome for this client include those indicated by triple XXX's in the table below.

XXX 7 = College training organized around a specific vocational objective.
XXX 6 = Technical or trade school training.
5 = Vocational high school training.
XXX 4 = Apprentice training (for apprenticeable jobs only).
XXX 3 = In-plant or in-service training.
XXX 2 = On-the-job training.
1 = Essential work experience in related, usually less responsible jobs.

SVP training options which are not indicated by the triple XXX's in the preceeding table will generally have lower probabilities of successful training-related outcomes. These probabilities will generally tend to decrease as the difficulty of the option increases.

## Working With Data (D), People (P), and Things (T)

A worker's capacity for working with Data, People and Things can be expressed in terms of the highest appropriate function in each heirarchy at which the worker has occupationally significant capacities.

With respect to the levels of complexity in dealing with Data, People, and Things, this client appears capable of vocational functioning up to and including the levels indicated by the triple XXX's on each of the three heirarchies listed below.

#### Page 5

| MVQS SCALE FOR DATA Set 1: DATA  | MVQS SCALE FOR PEOPLE<br>Set 2: PEOPLE | MVQS SCALE FOR THINGS<br>Set 3: THINGS          |
|----------------------------------|--|---|
| 8 = Synthesizing                 | 8 = Mentoring                          | XXX 8 = Setting up                              |
| 7 = Coordinating                 | 7 = Negotiating                        | 7 = Perecision Working                          |
| XXX 6 = Analyzing                | 6 = Instructing                        | 6 = Operating-Controlling 5 = Driving-Operating |
| 5 = Compiling<br>4 = Computing   | XXX 5 = Supervising<br>4 = Diverting   | 4 = Manipulating                                |
| 3 = Conputing                    | 3 = Persuading                         | 3 = Tending                                     |
| 2 = Comparing                    | 2 = Speaking-Signaling                 | 2 = Feeding-Offbearing                          |
| 1 = (not used)                   | 1 = Serving                            | 1 = Handling                                    |
| 0 = (not used)                   | 0 = Taking Instructions                |   |
| (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Helping                                | (   |

General Educational Development (GED-R, M, & L)

General Educational Development embraces those aspects of education (formal and informal) which contribute to the worker's (a) reasoning and ability to follow instructions (R), and (b) acquisition of "tool" knowledges, such as Mathematical (M) and Language (L) skills. It is educational development of a general nature which does not have a recognized, fairly specific, occupational objective. Ordinarily such educational development is obtained in elementary school, high school, or the first two years of college where general subject matter is usually introduced rather than subject matter specific to any particular occupation. It also derives from experience and individual study.

With respect to reasoning, math, and language development, this client appears to be operating in the Percentile Category indicated by triple XXX's in the table below.

#### PERCENTILE CATEGORY RANGES

| GED FACTORS                                       | 1        | 2          | 3          | 4           | 5          | 6         |  |  |
|---|----------|------------|------------|-------------|------------|-----------|--|--|
|   | Very Low | Below Avg. | Low Middle | High Middle | Above Avg. | Very High |  |  |
|   | (1-5)    | (5-25)     | (25-50)    | (50-75)     | (75-95)    | (95-99)   |  |  |
| Reasoning (R):XXX  Math (M):XXX  Language (L):XXX |          |            |            |             |            |           |  |  |

### Interpretation:

Given the levels of functioning indicated above, this client should be able to:

- (1) Apply principles of rational systems to solve practical problems and deal with a variety of concrete variables in situations where only limited standardization exists. Interpret a variety of instructions furnished in written, oral, diagrammatic, or schedule form.
- (2) Solve math problems involving routine addition, subtraction, multiplication, and/or division at the 8th grade level and;
- (3) Read and spell words at about the 7th grade level.

#### Vocational Aptitudes

#### Page 6

Eleven different aptitudes were rated as either falling into the very high, above-average, average, below-average, or very low category ranges for this client. Estimated levels of functioning for each of the 11 aptitudes were based on central tendency estimates across standardized tests, behavioral observations and other evaluative data used for assessing each aptitude (see attached MVQS MACE form - Aptitudes). Category percentile ranges were modeled after U.S. DOL Job Analysis ranges.

The five rating categories with corresponding  $\mathfrak{p}_{\mathbb{R}_+}$  centile ranges are listed across the top of the table which follows. The 11 aptitudes are listed at the left of the table. Aptitudes are plotted by category level with triple "XXX's."

## CATEGORY LEVELS WITH PERCENTILE RANGES

| VOCATIONAL APTITUDES   | 1<br>Very Low<br>(1 - 10) | 2<br>Below Avg.<br>(10 - 33) |     | 4<br>Abo <b>ve</b> Avg.<br>(67 - 90) | 5<br>Very High<br>(90 - 99) |
|--|---------------------------|------------------------------|-----|--------------------------------------|-----------------------------|
| Gen. Intelligence (G) Verbal Aptitude (V) Numerical Aptitude (N)   | ;                         |                              | XXX |                                      |                             |
| Spatial Perception (S) Form Perception (P) Clerical Perception (Q) | ;                         |                              |     | XXX<br>XXX                           |                             |
| Motor Coordination (K) Finger Dexterity (F) Manual Dexterity (M)   | :                         |                              | XXX |                                      |                             |
| Eye-Hand-Foot Coord. (E) Color Discrimination (C)                  |                           |                              |     | XXX<br>XXX                           |                             |

# Physical Capacities/Preferences/Tolerances (PD-1 to PD-6)

(See attached MVQS MACE Form - Physical Capacities)

## Environmental Conditions (ED1 - EC7)

(See Attached MVQS MACE Form - Environmental Conditions)

## Work Activities (WA1A - WA5B)

Based on job requirements from work history and vocational possibilities selected during evaluation, this client appears to prefer or could tolerate significant amounts of work activities indicated by the triple XXX's in the table below.



#### Page 7

| XXX | WAla | = | Deal with Things & Objects               |
|-----|------|---|--|
|     | WA16 | = | Communication of DATA                    |
| XXX | WA2a | = | Business Contact with People             |
|     | WA2b | = | Scientific & Technical Activities        |
| XXX | WA3a | = | Routine, Concrete, Organized             |
|     |      |   | Abstract and Creative                    |
|     | WA4a | = | For Presumed Good of People              |
| XXX | WA4b | = | Relating to processes/machines           |
| XXX | WA5a | = | Resulting in prestige/esteem             |
|     | WA5b | = | Results in tangible/product satisfaction |

### Work Situation (WS-D thru WS-V)

Significant work situations for which the client indicated a preference or tolerance are indicated by triple XXX's in the table below.

| XXX | WSD | = | Direction/control/planning         |
|-----|-----|---|------------------------------------|
|     | WSF | = | Interpret feelings/ideas           |
|     | WSI | = | Influence opinions/attitudes       |
| XXX |     |   | Make subje <b>c</b> tive decisions |
| XXX |     |   | Make objective decisions           |
|     |     |   | Deal with people                   |
| XXX | WSR | = | Repetitive/cyclical work           |
| XXX | WSS | = | Perform under stress/tension       |
| XXX | WST | = | Meet precisely set limits          |
| XXX | WS۷ | = | Perform variety of duties          |

### WORKER CHARACTERISTICS/BEHAVIORAL OBSERVATIONS

Grooming/Hygiene: Appeared clean. Had long hair, sometimes in a pony tail, and full beard. Dressed in jeans, boots, denim jacket. Carried "trucker's" wallet with a chain. Clothing was clean and in good repair, kept grooming in order.

Physical Problems: Previously-reported back injury. None other reported or apparent. Complained once about back hurting when doing a work sample involving standing on one foot while pressing a pedal with the other; duration of the task was 8 minutes. This was the longest he stood for any task. He was able to sit for a 6 hour day, with only regular breaks and occasionally getting up to get materials. No pain behaviors were observed.

Behavioral Problems: None.

Communications: Spoke clearly, expressed himself effectively.

Co-worker/Supervisory Relationships: Was quiet, friendly. Got along with others. Was cooperative and a willing participant.

<u>Need for Supervision</u>: Took initiative to start and work independently as long as he had a task to do. Tended to just wait and not say anything when finished with a task. Needed only minimal supervision while working on the task.



Page 8

Punctuality/Attendance: Good. Was present every day. Reported on time.

Ability to Follow and Retain Instructions (Verbal/Written): Could follow ordinary verbal and written instructions.

Ability to Follow Diagrams and Utilize a Model: Following a diagram was not assessed. Could follow a model.

<u>Planning and Organizational Ability</u>: Demonstrated a generally well-organized approach to tasks.

Quality, Accuracy, and Neatness of Work: Good quality after initial instructions. Only occasional reminders needed.

Task Persistence: Good. Persisted to completion.

Task Attending: Was on-task as long as he had work to do.

Attention to Detail: Attended as closely as necessary.

<u>Judgment/Decision Making</u>: No evidence of any judgment problems. Made decisions readily.

Reaction to Frustration: No problems observed.

#### INSTRUMENTATION AND RESULTS

Various tests, subtests, and work samples administered during this evaluation are reported with their results on the attached MVQS Measurement Assisted Clinical Evaluation (MACE) forms. Results are graphed for visual inspection. Plotting scales reflect both standard score units and percentiles.

Results are grouped according to the basic underlying individual traits which have been assessed during the evaluation. These are listed at the top of each set of seven columns which fall between double lines. The anchor point for all plots is at the 50th percentile which has been highlighted in blue.

The various tests, subtests, and work samples administered are listed at the top of each page. Scores, percentiles, and job functioning levels are reported at the top of each column for each test. The centroid or central tendency estimate across various evaluative data sources is also reported near the top of the page.

Score plots falling below the 10th percentile indicate very low performance; plots between the 10th and 33rd percentile are considered below average; plots between the 33rd and the 67th percentile are considered average; plots between the 67th and 90th percentile are considered above average; and plots above the 90th percentile are considered in the very high range in terms of vocational functioning. These ranges were modeled after the cut-off points used by the Department of Labor when jobs in the United States were being analyzed between 1965 and 1979. Job analysis profiles rated in terms of the same categorical levels may be found in the Encyclopedia of Job Requirements (McCroskey, 1980) for all 12,099 jobs listed in the Dictionary of Occupational Titles (U.S. Department



Page 9

of Labor, 1977) and the <u>Guide for Occupational Exploration</u> (U.S. Department of Labor, 1979). These occupational information resources are available both at the Hamlet Evaluation Center and at the Mankato Rehabilitation Center.

Normative data, representative of the general adult working population, were used to determine plots for various tests, subtests, and work samples whenever possible. In those cases where industrial standards were used in lieu of normative data, the industrial standard was fixed at the midpoint of average, the 50th percentile. In those cases where clinical judgments were used, the <u>Handbook for Analyzing Jobs</u> (U.S. Department of Labor, 1972) was used to guide level estimates regarding vocational functioning.

Copies of certain other self-explanatory evaluative data will also accompany client reports when available. These include copies of the Career Assessment Inventory, the Minnesota Importance Questionnaire, the MACE Physical Capacities and Environmental Conditions Inventories, and other similar documents. Questions concerning the interpretation of these evaluative data sources should also be referred to the Vocational Services staff either at the Hamlet Center or MRCI.

Thank you for this referral. If you have any further questions, please feel free to contact us.

Sincerely,

Vocational Evaluator Hamlet Evaluation Unit

/wp

0020B7



### Sister Kenny Institute

In the Spring of 1977, the Sister Kenny Institute became one of the first nationally to offer short-term vocational evaluation programming. The Sister Kenny Institute is a division of the Abbott-Northwestern Hospital Corporation and offers a unique setting for the short-term vocational evaluation program. The program has immediate access to physicians of various specialties, clinical assessment areas (physical therapy, occupational therapy, speech, psychology, mental health chemical dependency, and the occupational medicine clinic), in offering complete medical/vocational assessment.

Populations served by the Vocational Services Department include industrially injured workers, spinal cord injured, amputees, post-polio, cancer patients, head trauma, cerebral palsy, cardiac, and mental health clients primarily from RSA Region V. Services offered in addition to short-term vocational evaluation include: vocational counseling; job seeking skills training; PLATO training; and complete project with industry placement services.

The Vocational Services Department has nine full-time staff and provides services to more than two thousand clients annually.

The short-term vocational evaluation program evolved from an evaluation need of individuals who had previously been in the competitive marketplace and had obtained vocational transferable skills, work experience, and developed occupational interests. The short-term vocational evaluation was developed to serve such people who suddenly found themselves unable to return to previously held occupations as a result of injuries or disabling illness.

The vocational evaluation program at Sister Kenny Institute is based on detailed knowledge of referral source needs as well as on the needs of clients being served. Specific goals are established with the referral source and client prior to the actual evaluation process. Since significant referrals originate from worker's compensation carriers, long-term disability carriers, physicians, and attorneys, as well as Division of Vocational Rehabilitation counselors, the evaluator needs to be aware of the legal, medical, and vocational issues of each case.

Short-term vocational evaluation at the Sister Kenny Institute is one program where medical concerns and legal issues join the vocational rehabilitation process in an attempt to establish specific and realistic long and short-term vocational goals. While vocational evaluation is the focal point, it must operate within the parameters established by both the legal and medical professions as well as such systems as social security disability, personal injury, worker's compensation, and long-term disability.

Physicians establish the functional limitations of the client, various legal systems establish the extent of permitted disability, financial responsibility, and future rehabilitation options.

The evaluation program, then, operates on a broad knowledge base which includes employment data, occupational literature resources, and specialized vocational evaluation techniques. Additional resources available to the vocational evaluation unit include job seeking skills, job placement, medical case



review, and follow-up. The emphasis of the short-term evaluation is on identification of transferable vocational skills, present skills, physical tolerances, and, of course, age and education as it relates to an individual's return to the competitive labor market through direct job placement.

Specific factors are identified as being important in arriving at return to work conclusions. Production, behavioral observations, quality of work performed, and subjective complaints of fatigue or discomfort are measured against objective medical findings and consistency of performance. Evaluators check consistency between these factors in arriving at viable employment options and evaluation conclusions.

Actual time spent by the client in the vocational evaluation is from three to five days, 8:30 A.M. to 2:00 P.M. The evaluator/client ratio is one to three. Referral information is requested prior to the client being seen for the first time. Referral information includes all relevant material regarding disability diagnosis, date of injury, previous testing results, stated limitations, psychological testing results, complete medical file, and specific referral questions. The client is informed ten days prior to the evaluation starting date. Upon arrival at the evaluation center, the client is informed of evaluation procedures and participates in a short orientation. CARF procedures are followed with the client being asked to sign an orientation checklist after all procedures have been explained.

Evaluation planning begins with a client intake interview, where the evaluation process and desired outcomes are explained by the evaluator. The Initial Intake Form is then completed (Figure 8). Initial emphasis during this interview is to obtain accurate job history information so as to identify transferable vocational skills. The second emphasis is to establish rapport and trust between the client and the evaluator.

The evaluation primarily centers around the administration of commonly used psychological tests (e.g., ABLE, Minnesota Paper Formboard, Purdue Pegboard) and the Valpar Component Work Sample System series. For the sake of standardization, the complete Valpar series is administered to all participants with the exception of those having severely limiting physical disabilities. Psychological tests are group administered when feasible. The Individual Rehabilitation Plan of Action (Figure 9) is used to record the evaluation plan. The "Objectives" are based upon the referral questions; the psychological tests, work samples, etc., are listed "Action to be Taken." The last three columns list the evaluator who will administer the devices, the date of administration, and the anticipated completion date.

All clients undertake systematic vocational exploration as part of their evaluation. The California Occupational Preference Survey (COPS) or Wide Range Interest and Occupational Test (WRIOT) is administered to identify general interest areas. The COPS or WRIOT profile is used with the <u>Dictionary of Occupational Titles</u> and the <u>Occupational Outlook Handbook</u> to more fully explore occupational interests and alternatives. The client interview establishes interest areas to check tested interest. Clients are encouraged to use the Job Placement Handbook, developed and regularly updated by the job placement specialists. This handbook lists current job openings. Such a job search resource assists the client to set realistic vocational goals (e.g.,



job availability) and uses parameters established in conjunction with the client's: physical and emotional capacity and endurance, salary, and job satisfaction. This information is, of course, related to the client's evaluation plan.

Time and error scores, behavioral observations, and test results are recorded on forms on pages 74 to 78. Behavioral observation assesses consistency of pain behaviors and verbal reports with documented medical limitations and objective results. Behavioral observations additionally assess work habits (e.g., punctuality, attendance, concentration, organizational abilities, and interpersonal skills) as well as related capabilities (e.g., mobility, communication, and hygiene).

A counseling out session between the client and evaluator is held to discuss evaluation results and recommendations. This session provides the client with an opportunity to discuss vocational goal planning and also give feedback on the results of the evaluation. The client completes an anonymous program evaluation form which solicits individual response to the vocational evaluation process. The counseling session and program evaluation form allow the evaluator to determine to what extent the client obtained information through the evaluation experience.

Staffing conferences are usually held on Friday. The vocational evaluator is responsible for sharing all information with the client prior to the staffing. The client and referral source are invited to the staffing. The physician, attorney, social worker, claims representative, family members, and other counselors may also be included. The staffing summarizes the evaluation results as shown on Figure 10, including psychological testing results, recommendations, needed support services, and future goals. Staffing information is included in the final report, which is completed within ten days of the staffing date.

The final report (Outline-Figure 11; Report-Figure 12) is the last phase of the vocational evaluation process. Because reports can be used for legal proceedings, they are carefully prepared, using terminology which applies to the legal parameters of the client's case (e.g., DOT definitions of physical capabilities, S.S.D.I. regulations, etc.). Any statements made in the narrative must be backed by other data, such as test results, work sample findings, interviews, behavioral observations, and medical findings. The reports are prepared and sent to the parties authorized by the client. Figure 11 contains the Vocational Evaluation Report Outline and Figure 12 is an example of a Narrative Report.

Over the past six years, the Sister Kenny Institute short-term vocational evaluation program has been responsive to referral source and client needs. Its success is directly attributable to staff and program flexibility. Ongoing contacts with the marketplace, changing legislation, and changing accountabilities have resulted in the development of new assessment programs, such as psycho-vocational evaluation, functional capacity assessment, and stylized evaluation.



| DATE  | INI   | ITAL THIA | NE FURM           |                    | COM           | PUNENT                                 |  |
|---|---|-----------|-------------------|--------------------|---------------|--|--|
| EVAL. DATE  | EVALJSS<br>COUNSELING                         |           |                   |                    |               |  |  |
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| REFERRED BY   |   | ADD       | RESS              |                    |               |  |  |
| REFERRAL PHONE #  | <u> </u>                                      | PRIMARY P | HYSICIAN          |                    |               |  |  |
| ADMITTING DIAGNOSIS                                       |   |           | . <u> </u>        | ACCIDENT?          |               |  |  |
| DATE OF INITIAL IN  | EMPLO   | ER INVOL  | VED?              | WHO?               |               |  |  |
| INSURANCE COMPANY   |   |           | CLAIM #           | CON<br>PER         | NTACT<br>RSON |  |  |
| HEIGHT WEIGHT (r  | now)  | W         | EIGHT (be         | fore injury) _     |               | ······································ |  |
| INVOLVED WITH DVR?  | COUNSELO                                      | OR        |                   |                    |               | ····                                   |  |
| Address   |   |           |                   | PHC                | NE            |  |  |
| DO YOU HAVE ANYONE ELSE WORK specialist, Rehab. Nurse, At |   |           |                   |                    |               | it                                     |  |
| FINANCIAL INFORMATION                                     |   |           |                   |                    |               | -                                      |  |
| UNEMPLOYMENT:   | \$  | /week     | WORKERS           | COMPENSATION:      | \$            | /week                                  |  |
| LONG-TERM DISABILITY:                                     | \$  | /month    | SUPPLEME          | ENTAL SECURITY     | : \$          | /month                                 |  |
| SOCIAL SECURITY DISABILITY:                               | \$  | _/month   | GENERAL           | ASSISTANCE:        | \$            | /month                                 |  |
| MEDICAL ASSISTANCE:                                       | \$  | _/month   | PENSION:          | :                  | \$            | /month                                 |  |
| OTHER:  | \$  |           |                   |                    |               |  |  |
| INJURY/HOSPITALIZATION                                    |   |           |                   |                    |               |  |  |
| WHAT LEAD TO INJURY/HOSPITAL                              | IZATION?                                      |           |                   |                    |               |  |  |
| ANY SURGERY?  |   |           |                   |                    |               |  |  |
| ON-GOING TREATMENT  |   |           |                   |                    |               |  |  |
| MEDICATIONS (FREQUENCY)                                   |   |           |                   |                    |               |  |  |



| OTHER DISABILITY   |   |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|
|  |   |  |  |  |  |  |  |
| HAVE YOU BEEN RELEASED TO WORK BY PRIMARY PHYSICIAN?   |   |  |  |  |  |  |  |
|  | BY PHYSICIAN  |  |  |  |  |  |  |
|  | HEARING (TENS unit, brace, etc.)                                      |  |  |  |  |  |  |
|  | G? PRECENTAGE   |  |  |  |  |  |  |
| PRESENT PHYSICAL RESTRICTIONS (WHAT  | ·   |  |  |  |  |  |  |
| SITTING  | minutes/hours   |  |  |  |  |  |  |
|  | minutes/hours   |  |  |  |  |  |  |
| STATIONARY STANDING  | minutes/hours   |  |  |  |  |  |  |
| WALKING  | minutes/hours   |  |  |  |  |  |  |
| HOW OFTEN CAN YOU PERFORM THESE ACTIO  | DNS DURING AN AVERAGE WORK DAY:                                       |  |  |  |  |  |  |
| NOT AT ALL   | OCCASIONALLY FREQUENTLY CONTINUOUSLY                                  |  |  |  |  |  |  |
| Bend/stoop Squat Crawl Climb Reach (above shoulder) Reach (forward) Waist twisting Kneeling Balancing Push/pull Walk (uneven surfaces) Additional Comments |   |  |  |  |  |  |  |
|  | PART-TIME   |  |  |  |  |  |  |
|  | DO YOU HAVE A DRIVERS LICENSE?CLASS  CLE CARPOOL METRO MOBILITY OTHER |  |  |  |  |  |  |
|  |   |  |  |  |  |  |  |



| EDUCATION:                            |  |
|---------------------------------------|--|
| DO YOU HAVE A HIGH SCHOOL DIPLOMA?    | GED?                                     |
| IF SO, DATE GRADUATED AND WHAT SCHOOL |  |
|                                       | YOU ENJOYED                              |
| COURSE(S) YOU DISLIKED                |  |
|                                       | ON-THE-JOR TRAINING VOCATIONAL-TECHNICAL |
|                                       |  |
|                                       |  |
|                                       |  |
| HOBBIES/INTERESTS                     |  |
| MILITARY SERVICE:                     |  |
|                                       | DAMP                                     |
|                                       | TYPE OF DISCHARGE                        |
|                                       | DUTIES                                   |
|                                       | DOTTES                                   |
| EMPLOYER INVOLVED AT TIME OF INJURY   |  |
| NAME OF COMPANY                       |  |
| SUPERVISOR                            |  |
|                                       | SALARY WHEN INJURED                      |
| JOB TITLE                             |  |
| DUTIES/SKILLS                         |  |
| MACHINES OPERATED                     |  |
| JNION (NAME)                          | BUSINESS AGENT                           |
| AST DATE OF EMPLOYMENT                |  |
| EMPLOYER (name)                       |  |
| OATES                                 | (address)<br>SALARY                      |
|                                       |  |
|                                       |  |



|    | REASON FOR LEAVING   |                |               |                         |                   |
|----|----------------------|----------------|---------------|-------------------------|-------------------|
| 2. | EMPLOYER             |                |               |                         |                   |
|    | DATES                | (name)         | - <del></del> | (address)<br>SALARY     |                   |
|    |                      |                |               |                         |                   |
|    |                      |                |               |                         |                   |
|    | REASON FOR LEAVING   | ····           |               |                         |                   |
| 3. |                      |                |               |                         |                   |
|    | DATES                | (name)         |               | (address)<br>SALARY     | · · · · · · · · - |
|    | JOB TITLE            |                | DUTIES _      |                         |                   |
|    |                      |                | <del></del>   |                         |                   |
|    | REASON FOR LEAVING _ |                |               |                         |                   |
| 4. |                      |                |               | (address)               |                   |
|    | DATES                | (name)         |               | SALARY                  |                   |
|    | JOB TITLE            |                | DUTIES _      |                         |                   |
|    | DEASON FOR LEAVING   |                |               |                         |                   |
| E  |                      |                |               |                         |                   |
| ο. | EMPLOYER             | (name)         |               | (address)               |                   |
|    |                      |                |               | SALÀRY                  |                   |
|    |                      |                |               |                         |                   |
|    |                      |                |               |                         |                   |
|    |                      |                |               |                         |                   |
|    |                      |                |               |                         |                   |
|    |                      |                |               | OU WILLING TO RELOCATE? |                   |
|    | IF SO, WHAT AREAS WO | ULD YOU CONSID | ER?           |                         |                   |
|    |                      |                |               |                         |                   |
|    | WHAT DO YOU HOPE TO  | _              |               |                         |                   |



| Client Name  | INDIVIDUAL REHABILITATION PLAN OF ACTION         |  |                              |                             |                              |  |
|--|--|--|------------------------------|-----------------------------|------------------------------|--|
| Referral SourceOBJECTIVES                              |  | ACTION TO BE TAKEN                                 | MHOM                         | INITIATION<br>DATE          | PROJECTED<br>COMPLETION DATE |  |
|  |  |  |                              |                             |                              |  |
|  |  |  |                              |                             |                              |  |
|  |  |  |                              |                             |                              |  |
|  |  |  |                              |                             | i                            |  |
|  |  |  |                              |                             |                              |  |
|  |  |  |                              |                             |                              |  |
| 73   |  |  |                              |                             |                              |  |
| :  |  |  |                              | Plan Revi                   | ew Date:                     |  |
| Revisions:   |  |  |                              |                             |                              |  |
|  |  |  |                              |                             | ew Date:                     |  |
| Statement of Responsibility                            | ;  |  |                              |                             | <del></del>                  |  |
| I understand that it is<br>the stated objectives. I an | s my responsibility to<br>n aware that my referm | o cooperate in the Plan<br>Pal source will receive | of Action ar<br>progress upo | d make reasonable<br>lates. | efforts to achieve           |  |
|  |  | :  |                              |                             |                              |  |
| Date   | Client Signature                                 |  | Staff                        | Signature (Title)           | -                            |  |



| NAME:  |  |  | STAFFING DATE:    |        |
|--|--|--|-------------------|--------|
| EVAL. DATE   | mr3  |  |                   |        |
|  | Perc   | entile   |                   |        |
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| ERRORS   |  |  |                   |        |
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| ERRORS   |  |  |                   |        |
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| CLERICAL (4)   | <del></del>  |  | <b>\</b>          |        |
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| TIME                                |        |         |                |                         |
| ERRORS                              |        |         |                |                         |
| MULTI-LEVEL SORTING (7) DATE:       |        |         |                |                         |
| TIME                                |        |         |                |                         |
| ERRORS                              |        |         |                |                         |
| SIMULATED ASSEMBLY (8) DATE:        |        |         |                |                         |
| TIME: 20:00                         |        |         |                |                         |
| NUMBER OF<br>ASSEMBLIES             |        |         |                |                         |
|                                     |        |         |                |                         |
| WHOLE BODY R.O.M. (9)<br>DATE:      |        |         | 7              | *USE CHART*             |
| TRANSFER 1                          |        |         |                |                         |
| TRANSFER 2                          |        |         | \ \ \ \ -      |                         |
| TRANSFER 3                          |        |         | $   \wedge   $ |                         |
| TRANSFER 4                          |        |         |                |                         |
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| ERRORS                              |        |         |                |                         |
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|                                     |        |         |                |                         |



|                                 | Numerical Seq                      | uence | Time                                   | / Quali          | ty | Behavio | ral Obser | vations      |
|---------------------------------|------------------------------------|-------|--|------------------|----|---------|-----------|--------------|
|                                 | EYE-HAND-FOOT COORD. (11)<br>DATE: |       |  |                  |    | T1      | T2        | Т3           |
|                                 | TOTAL TIME                         |       |  |                  |    |         |           |              |
|                                 | TOTAL POINTS                       |       |  |                  |    |         |           |              |
|                                 | SILO LADDER (12)<br>DATE:          |       |  |                  |    |         |           |              |
|                                 | DISASSEMBLY TIME                   |       |  |                  |    |         |           |              |
|                                 | ERRORS                             |       |  |                  |    |         |           |              |
|                                 | ASSEMBLY TIME                      |       |  |                  |    |         |           |              |
|                                 | ERRORS                             |       |  |                  |    |         |           |              |
|                                 | SOLDERING (13)<br>DATE:            |       | ······································ |                  |    |         |           |              |
|                                 | TOTAL TIME                         |       |  |                  |    |         |           |              |
|                                 | TOTAL ERRORS                       |       |  |                  |    |         |           |              |
|                                 | ELECTRONIC CIRCUITRY (14) DATE:    |       |  |                  |    |         |           |              |
|                                 | TOTAL TIME                         |       |  |                  |    |         |           |              |
|                                 | TOTAL ERRORS                       |       |  |                  |    |         |           |              |
|                                 | INTEGRATED PEER PERF. (15) DATE:   |       | ·                                      |                  |    |         |           |              |
|                                 | TOTAL TIME                         |       |  |                  |    |         |           |              |
|                                 | TOTAL ERRORS                       |       |  |                  |    |         |           |              |
|                                 | TYPING (16)<br>DATE:               | 7-1-  | <del></del>                            |                  |    |         |           | <del> </del> |
|                                 | TWO 5 MINUTE TIMED TESTS           |       |  |                  |    |         |           |              |
|                                 | 1 2<br>ERRORS                      |       |  |                  |    |         |           |              |
|                                 | SMALL .OOLS (17)/DRAFTING (18      | 3)    |  |                  |    |         |           |              |
|                                 | DATE:                              |       |  |                  |    |         |           |              |
|                                 | TOTAL TIME/ASSEMB                  |       |  |                  |    |         |           |              |
|                                 | TOTAL ERRORS/DISASSMB              |       |  | <sub>76</sub> 85 |    |         |           |              |
| Fig.                            |                                    |       |  |                  |    |         |           |              |
| ERIC Full Text Provided by ERIC |                                    |       |  |                  |    |         |           | C.           |
|                                 |                                    |       |  |                  |    |         |           |              |

| NUMERICAL<br>SEQUENCE | WORK SAMPLE<br><u>TITLE</u>  | TIME<br><u>%ILE</u>                                       | QUALITY<br><u>%ILE</u> |
|-----------------------|--|---|------------------------|
|                       | SIZE DISCRIMINATION  |   | <del>,</del>           |
|                       | NUMERICAL SORTING  |   |                        |
|                       | UPPER EXTREMITY RANGE OF MOT   | TION  | *                      |
| ·····                 | CLERICAL: MESSAGE TAKING   |   |                        |
|                       | MAIL SORTING   |   | <del> </del>           |
|                       | ALPHABETICAL FILING  |   |                        |
|                       | BOOKKEEPING  |   |                        |
|                       | INDEPENDENT PROBLEM SOLVING  |   |                        |
|                       | MULTI-LEVEL SORTING  |   |                        |
|                       | SIMULATED ASSEMBLY   |   |                        |
|                       | WHOLE BODY RANGE OF MOTION   |   |                        |
|                       | TRI-LEVEL MEASUREMENT  |   |                        |
| ·                     | EYE-HAND-FOOT COORDINATION   | - Control of Control                                      |                        |
|                       | SILO LADDER  |   |                        |
|                       | SOLDERING  |   |                        |
|                       | ELECTRONIC CIRCUITRY   |   |                        |
|                       | INTEGRATED PEER PERFORMANCE  |   |                        |
|                       | TYPING   |   |                        |
|                       | SMALL TOOLS  |   |                        |
| 3-3-3                 | DRAFTING   |   |                        |
|                       | PSYCHOMETRIC TESTING (Date   | Administered)   |                        |
| Adult Basic Lea       | arning Examination - II: (Non-ti<br>Reading<br>Arithmetic Computation<br>Arithmetic Problem Solvin<br>Arithmetic Total | grade level<br>grade level                                | velj                   |
| GATES MacGinit        | ie Reading Survey: (Timed/measur<br>Speed and Accuracy<br>Vocabulary<br>Comprehension                                  | res to 12th grade level)grade levelgrade levelgrade level |                        |



| wide Range Achievem<br>(Non-timed)<br>(Non-timed)<br>(Timed) | ent Test:<br>Reading Pronunciation<br>Spelling<br>Arithmetic             |                                | grade level%                  | Compared to<br>Individuals<br>in Age Group |
|--|--|--------------------------------|-------------------------------|--|
| Minnesota Spatial R  | elations:  | %                              | Norms:                        | _  |
| Minnesota Paper For<br>(Timed 20:00)                         | mboard: Raw Score  | at%                            | Norms:                        |  |
| Purdue Pegboard: (   | Timed 50% average/fine fir   | nger manipula                  | tion and dexterity)           |  |
|  | Right hand<br>Left hand<br>Both hands<br>Right + Left + Both<br>Assembly | %<br>%<br>%                    |                               |  |
| General Clerical:  |  |                                |                               |  |
|  | Clerical Subscore<br>Verbal Subscore<br>Numerical Subscore<br>Total      | %<br>%                         | Norms:                        | <u>-</u>                                   |
| Minnesota Clerical:  |  |                                |                               |  |
|  | Name Comparison<br>Number Comparison                                     | %<br>%                         | Norms:                        |  |
| Bennett Mechanical C   | omprehension and Aptitude<br>Raw Score                                   | : (Timed, 30                   | ) minutes)<br>Norms:          |  |
| California Occupatio   | nal Preference Survey: (   | 75% and above<br>vocational in | e is considered a highterest) | gh area of                                 |
| 1.   | % 2  | % 3.                           |                               | %  |
| 4.   | % 5  | % 6.                           |                               | %  |
| Wide Range Interest-(  | Opinion Test:  |                                |                               |  |
| 1.   | <u></u> % 2  | % 3.                           |                               | %  |
|  |  |                                |                               |  |

<u>ASSETS</u> <u>LIMITATIONS</u>

#### RECOMMENDATIONS

#### OCCUPATIONAL CONSIDERATIONS

# Standing Stationary Others: Walking \_\_\_\_\_\_\_ Sitting \_\_\_\_\_\_ Signatures of those in attendance \_\_\_\_\_\_\_ Signatures.



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#### SISTER KENNY INSTITUTE VOCATIONAL EVALUATION REPORT OUTLINE

| Name      |     | Telephone Number  |
|-----------|-----|-------------------|
| Address   |     | Social Sec. #     |
|           |     | Referred By       |
| Birthdate |     | Evaluation Period |
| Age       | Sex | Date              |

#### I. BACKGROUND INFORMATION:

Age Sex Marital Status Reason for Referral Educational History Work History Medical History

A. Date of injury

B. Medical circumstances surrounding injury as reported by client and as indicated in referral information.

#### II. GENERAL IMPRESSIONS:

Physical Appearance Grooming and Hygiene Initial Impressions and Discussions

# III. WORK TOLERANCE/ENDURANCE:

Gross, manual and fine finger dexterity.

Measurement of upper extremity range of motion, including shoulder, upper arm, forearm, elbow, wrist, and hand as they relate to the functional ability to perform job tasks.

Measurement of gross body movements of the trunk, arms, hands, legs, and fingers as they relate to the functional ability to perform job tasks. Sitting, standing, bodily twisting and bending tolerances as they relate to ability to perform job tasks.

#### IV. PSYCHOMETRIC TESTING RESULTS:

Arithmetic grade levels/percentiles Arithmetic problem solving, grade levels/percentiles Arithmetic computation, grade levels/percentiles Spelling

Figure 11



# IV. PSYCHON-METRIC TESTING RESULTS (continued):

Readin grade levels

- A. Vocabulary
- B. Comprehension
- C. Pronunciation

Spatia form perception

Clerical aptitudes

Mechan a cal aptitudes

Interest survey

#### V. SUMMAR

#### Work Habits:

- A. Punctuality
- B. Reliability
- C. Acceptance of supervision and constructive criticism
- D. Cooperativeness
- E. Interaction with co-workers (interpersonal skills)
- F. Communication skills
- G. Ability to follow instructions
- H. Tolerance/frustration level for pressure
- I. Quality of work
- J. Performance time/work rate

# Personality Characteristics:

A. Atypical/positive/negative

Explanation of Recommendations:

A. Reasons for recommendations (i.e., JSS: light/sedentary work, etc.)

Modifications/Restructuring

Results of Staffing

- A. Date
- B. Who attended

Statement as to Clients' Employability Status Following Review of Vocational Evaluation

VI. VOCATIONAL ASSETS:

Transferable skills, strengths identified by evaluation

VII. VOCATIONAL LIMITATIONS:

VIII. RECOMMENDATIONS:

IX. DIRECT PLACEMENT/ON-THE-JOB TRAINING

# SISTER KENNY INSTITUTE VOCATIONAL EVALUATION REPORT

| NAME      | Alice Davis               | TELEPHONE NUMB SER 235-5682             |
|-----------|---------------------------|---|
| ADDRESS _ | 3839 78th Street, Apt. 24 | SOCIAL SECURITTY #                      |
|           | Fridley, MN               | REFERRED BY:                            |
| DIRTHDATE | April 10, 1927            | EVALUATION PER \$10D 1/18/82 to 1/22/82 |
| AGE       | 55 SEX Female             | DATE 2/4/82                             |
|           |                           |   |

# BACKGROUND INFORMATION:

Ms. Davis is a 55 year old widowed femle presently living in Fridley, Minnesota. She was referred to Sister Kenny's Department of Vocational Services to identify her interest areas and aptitudes, identify her physical capacity for work other than jobs requiring repetitive hand motions, observation of work behaviors, determine her urrent level of intellectual functioning and determine a feasible job goal. Ms. Davis in dicated that she completed her education up through the eighth grade. No formal post high school training or education was indicated.

The most recent past work experience has included employment t as a meterer at Stevens International where her job duty was toplace labels on packages and identify correct postage. Machines operated were a metering machine, adding machine and cash register. She indicated that her work was placed on conveyor belt which required her to work quickly. Other work experience has included employment as a counter wirl at a dry cleaners where her job duties were to wait on customers, ticket clothing, assemble orders, perform light record keeping. She has also been employed as a counter giral in a bakery where her job duty was to wait on customers.

Referral information available to the evaluator indicated thenat Ms. Davis has a diagnosis of bilateral carpal tunnel syndrome. This means that she is a unable to perform repetitive manual tasks. This report also indicated that recent testing has indicated a bulging cervical disc. The discomfort resulting from this has reportedly subsided due to traction.

# GENERAL IMPRESSIONS:

Initial impressions were those of a pleasant, friendly woman 

■ who stood approximately 5'3" and weighed approximately 155 pounds. She was very informat = ive in offering information Concerning her medical, educational and vocational backgrouh. ■ds. She was appropriately dressed for a work setting. The infomation she presented a ppeared to be very factual.

Ms. Davis indicated that her disability of carpal tunnel syneadrome was a result of repetitive work. She indicated that she has had three surgeris es. The first surgery was in June of 1980 on the right wrist, the second surgery in Augus- t of 1980 on the left wrist and an ulnar nerve release surgery on the left hand in April of 1981.

In terms of other physical difficulties, Ms. Davis indicated that her neck has been recently bothering her. She stated that in November of 1981 shi he had traction which has alleviated the pain radiating down herarm. She indicated the hat her doctor has stated haer neck problem is due to a bulging disc.

Ms. Davis also indicated that she has arthritis in her jaw arond takes medication for this.

Figure 12

It was Ms . Davis' understanding that she was released to return to work with the restriction of 1 imited hand use and lifting. She indicated that she was more limited with her left hand I than right. She stated that a disability rating of 10% to each arm was given to her.

In terms of limitation, Ms. Davis indicated that she could crawl only occasionally if not at all, re-each above her shoulder occasionally and push and pull only occasionally. She also state\_ed that keeping her head constantly in a downward position bothers her neck.

In terms of vocational planning, Ms. Davis indicated that she would desire a starting sall-ary of approximately \$4.15 an hour. She indicated she was not willing to relocate from her Fridle y residence. Her current job goal was undetermined. She also stated that she did not example driving as this made her nervous.

# WORK TOLEFERANCE/ENDURANCE

During the vocational assessment Ms. Davis was asked to perform tasks requiring her to work in a sitting and standing position, use her upper extremities and also to perform whole body range of motion. Assessment ratings were determined by individual task performances in relation to competitive, industrial employment standards. Motion, time and measurement norms were used as validated by the Valpar Corporation. Performance times and quality of work were recorded in percent rankings, with rankings of 100% indicating entry-level, competitive employment standards. The last four pages of this report provide a communication of the work samples, percent rankings and behavioral observations.

Based upor observations and comments made by Ms. Davis, it appeared that Ms. Davis had difficulty performing certain activities which are frequently found in a general work setting. Ms Davis indicated that she experienced constant numbness of the two small fingers of both heards. She would occasionally describe these fingers as being stiff also. Ms. Davis would also appear to report that her left hand would hurt more so or more often that her right.

Activities which would aggravate discomforts to her hands were frequent twisting of the wrists, frequent flipping of cards, frequent grasping of small objects and pulling of small objects from the pegboard. Occasionally, Ms. Davis was observed to drop items she was working with.

On two par—ticular work samples, Clerical Comprehension and Clerical Bookkeeping, Ms. Davis was required to write. At no time did she indicate that she had difficulty performing the is task. During her Clerical Bookkeeping she actually performed this task for a total of—30 minutes.

Manipulati on of small hand, precision tools (calipers and micrometer) she was observed to o have difficulty operating these tools accurately. It should be noted that twisting of the finger—s and wrist was involved.

It was alsazo noted that when Ms. Davis was required to perform frequent turning of nuts onto bolts a she would attempt to avoid twisting of her wrist by rolling the nuts between both hands a.

It was also o noted on one work sample, Whole Body Range of Motion, that she indicated she experience at a slight ache in the neck when she was required to look overhead. She did, however, state this discomfort did subside when she stopped looking overhead.



In terms of comparing Ms. Davis' performance time score to comp. etitive employment standards it appeared that she was working generally at the orange rate of speed. The is would suggest that Ms. Davis was able to tolerate her discomplets in orange to work at wheat is considered to be an entry-level, average competitive standard.

#### WORK SKILLS:

Ms. Davis demonstrated a variety of work skills that cold be ut-ilized in a variet y of work settings. She demonstrated the ability to follow simple-to—complex verbal and diagrammatic instructions and retain them through to completion of the task. She als o demonstrated average size discrimination. Her problem solving stills were above a verage whether or not she was required to make decisions based on set rules and regulations or whether she had to make conclusions from her own expriences. Her clerical skills were above average in mail sorting and alphabetical filing and slightily below average in telephone answering. Her errors in telephone answering we renoted to be in terms of or mitting information rather than recording incorrect information. Ms. Dawis was also noted to have above average skills in accuracy when required to match series of numbers, letters and colors.

Skills noted to be below average were in Eye-Hand-Foot wordination. This appeared to be more of a difficulty in coordinating her hands and feetsimultaneously rather than any interference due to physical discomforts. Ms. Davis dinot report any physical discomforts when performing this work sample.

PSYCHOMETRIC TESTING: (Date administered 1/20/82)

Adult Basic Learning Exam:

Arithmetic Computation 6.9 grade lew Arithmetic Problem Solving 7.1 grade lew Arithmetic Total 7.0 grade lew

Gates-MacGinitie Reading Survey

Speed and Accuracy (timed)

Vocabulary (untimed)

Comprehension (untimed)

9.2 grade | end |
12.7+ grade | end |
10.5 grade | end |

NOTE: This test does not score higher than the twelfth grade - level.

Wide Range Achievement Test:

Reading Pronunciation 11.5 grade |m|/92%i| e Spelling 10.9 grade |m|/90%i| e Arithmetic 7.2 grade |m|/79%i| e

Norms: Female within Ms. Davis' age group.

Minnesota Paper Formboard:

50%ile

Norms: Female applicants to an electrical appliance manufact wuring company.



# Pudue Pe, gboard:

| Right Hand          | 25%ile |
|---------------------|--------|
| Left E Hand         | 5%ile  |
| Both HHands         | 5%ile  |
| Right + Left + Both | 5%ile  |
| Assemblbly          | 6%ile  |

Norms:: Female industrial applicants.

#### Mmesota Clerical:

Name Comparison 65%ile
Number Comparison 40%ile

Norms == All applicants to banks.

NOTE: This test assesses accuracy and speed in determining quility of work.

# @liforni Occupational Preference Survey:

| Skilled/Science         | 98%ile | Professional/Business | 85%ile |
|-------------------------|--------|-----------------------|--------|
| Profe≤sional/Science    | 92%ile | Skilled/Business      | 80%ile |
| Profe≒sional/Technology | 90%ile | - •                   |        |

# SWARY:

During thims evaluation Ms. Davis was a very pleasant and cooperative woman. She was punctual in attendance, cooperative with the supervisor and persevered through to task completion one all those requested by the evaluator.

Poitive work skills were found in her ability to follow simple-to-complex (approximately 3-10 steps ) verbal and diagrammatic instruction; size discrimination; mail sorting and almabetical filing; problem solving; accuracy in matching series of numbers, letters and colors. So he did demonstrate below average eye-hand-foot coordination.

Pythometr—ic testing indicated average arithmetic and reading skills when compared to females her own age. She also demonstrated average spatial perception utilizering abstract thught. This means that she had an ability to mentally visualize factors and manipulate the so in a order to solve problems.

Mistral was given the Minnesota Clerical test in order to assess her accumacy and speed who comparing numbers and names. She performed slightly better on the names comparison who compared to all applicants at a bank. This type of skills is required on a job such as proofre-ading.

If the Pure-due Pegboard, a test assessing manipulative dexterity, especially when working with small and fine objects, she received below average percentile ratings. Her highest with her right hand and this seemed to be consistent withher being right hand dominant. However, she did indicate that she experienced slight numbing of the fingertips of the right hand. This test did indeed indicate that Ms. Davis has difficulty in manipulating small objects.

Mis Davis' performance time and quality scores when compared to industrial employment stidards a ranged within the average competitive level. This would indicate that Ms. Davis dos possess several skills and abilities that are comparable to those utili zed in many competitive jobs and that she is able to tolerate her discomforts to be able to work at an average commenced to the second contemporaries to be able to work at an average commenced to industrial employment



After work sample administration was completed vocational exploration was initiated. Ms. Davis utilized the results of her California Occupational Preference Survey, the want ads and a Job Book, listing available jobs within the community. Initially, she listed many jobs which would require further education or training. Therefore, the evaluator helped her in identifying other work areas which she could qualify for with her present skills. A list of these job suggestions are given at the end of this report.

In discussing vocational plans, Ms. Davis indicated that she would prefer to find employment on a full-time basis for financial reasons. She also indicated that she would prefer to work as close to her home area as possible and avoid much driving. She indicated that driving does make her nervous. Ms. Davis also had a concern about interviewing and how to present her disability without jeopardizing her chances of getting a job. Based upon the fact that she does have these questions it is suggested that she participate in a job seeking skills class, in either individual or group setting for development of a current resume, correct completion of application forms, positive interviewing techniques especially when speaking of her disability. It may also be suggested that she complete a GED Pretest. The scoring of this pretest would identify whether Ms. Davis has a likelihood of successfully passing a GED or if she requires further brush-up in any particular area of the test.

In terms of physical capabilities it appeared that Ms. Davis had difficulty when performing frequent finger and hand manipulations such as twisting and turning, flipping of cards and grasping of small objects. Writing did not appear to pose a problem during this evaluation. Ms. Davis also indicated that overhead glancing also caused discomfort to her neck temporarily. She indicated this discomfort subsided as soon as she stopped looking overhead.

In considering job ideas it is felt that Ms. Davis may be able to perform work that has varied job duties, involves problem solving skills, utilizes her organizational ability, ability to work independently and be accurate. It is suggested that she avoid jobs requiring repetitive hand, wrist, finger manipulations and overhead reaching. Ms. Davis indicated that she would prefer a job which had few concentrated arithmetic calculations. Ms. Davis appeared to investigate clerical type jobs, however, she noticed that typing skills were frequently required. Ms. Davis indicated that she does not type presently. However, she would be interested in learning. Ms. Davis may consider taking a course in typing, either by PLATO training or home practice in order to obtain these typing skills which would open more job opportunities. The goal would be to obtain an approximate speed of 30 words per minute.

Thank you for this referral to this one week evaluation. It was a pleasure working with Ms. Davis and participating in her vocational planning. The above statements in this report were recorded for your consideration in relation to the objective findings of the evaluation as well as the subjective comments offered by the client during the assessment program.

# **VOCATIONAL ASSETS:**

- 1. Punctual in attendance.
- 2. Cooperative with the supervisor.
- 3. Persevered through to task completion.
- 4. Positive work skills in: ability to follow simple-to-complex verbal and diagram-matic instructions; size discrimination; mail sorting; alphabetical filing; problem solving; accuracy in matching series of numbers, letters and colors.
- 5. Average arithmetic and reading skills; spatial perception utilizing abstract thought.
- 6. Time and quality scores ranged within the average competitive level.



# VOCATIONAL LIMITATIONS:

1. Demonstrated below average eye-hand-foot coordination skills.

Demonstrated below average fine finger dexterity.

 Reported constant numbness of two small fingers of both hands; occasional ache in the neck with overhead reaching.

 Observed difficulty in performing frequent hand, wrist, finger manipulations such as twisting, turning, fine grasping.

# RECOMMENDATIONS: (To be initiated by referral source and Ms. Davis)

 Consider participation in job seeking skills in either individual or group setting for development of current resume, correct completion of applications, and positive interviewing techniques, especially when speaking of disability.

 Complete GED Pretest and return for scoring within two weeks. Scoring of pretest would identify whether Ms. Davis has likelihood of successfully passing a GED or

if she requires further brush-up in any particular area of test.

Begin active job search through recent want ads, touring companies of interest

areas, cold canvas, use of yellow pages, etc.

4. Avoid jobs requiring <u>frequent</u> finger manipulations such as twisting and turning, flipping of cards, grasping of fine and small objects. Although Ms. Davis has found ways to compensate for this to avoid aggravations to the hands and wrists, repetitive manipulations like this would most likely increase discomforts.

Avoid frequent overhead glancing such as when used to reach overhead. Discomforts were reported when performing this action; however, Ms. Davis stated they were

alleviated when she finished working in this position.

6. Consider taking a course in typing, either PLATO training or home practice to obtain more skills which would open up more job opportunities. The goal is to obtain an approximate speed of 30 words per minute.

#### OCCUPATIONAL AREAS:

l. Ms. Davis would prefer to find employment on a full-time basis. Also to work as

close to her home area as possible, if possible.

2. Job ideas could be directed to considering varied job duties, problem solving skills, utilize organizational ability, ability to work independently and accuracy. It is suggested that she avoid jobs requiring repetitive hand - wrist finger manipulations and she requested she avoid jobs requiring concentrated arithmetic calculations.

#### SUGGESTIONS:

- Mail Clerk (Dayton-Hudson's)
- 2. Order Clerk
- Pharmacy Clerk
- 4. Information Clerk
- 5. Admitting Clerk
- 6. Hotel Desk Clerk
- 7. Hostess Cashier

Vocational Evaluator

2. SIZE DISCRIMINATION: Valpar - Component Work Sample 2 measures a person's ability to perform work task requiring visual size discrimination. This work sample requires the ability and millingness - to follow instructions and measures spatial and form perception. It measures an - individual's accuracy and attention to detail, manual and fine finger exterity, armid eye-hand coordination. The work sample is designed to be administered to the client while standing. However, the sample can be completed in a sitting position by individuals with disabilities that prevent them from standing during the administration. It should be noted that this work sample requires extended forward and cross-over reaching.

PERFORMANCE TIME 68%ile QUALITY 100%ile

BEHAVIORAL OBSERVATIONS:

Prior to beginning the work sample Ms. Davis indicated that her left hand was especially hurting her. When using her right hand individually she indicated that her two small fingers felt slightly numb and stiff. During the disassembly she was required to work with both hands simultaneously and indicated that she did find that she worked faster with hand right than with her left. She indicated that her left hand hurt more so than have right.

3. NUMERCIAL SORTIM: Valpar Component Work Sample 3 measures a person's ability to perform work sample tasks requiring the use of numbers and numerical series. It is designed to be administered to the client while standing; however, the sample can be completed while in a sitting position. This work sample requires the ability to work with fingers, speed and accuracy in computation, spatial and form perception, attention to detail and accuracy, manual and fine finger dexterity, and eye-hand coordination. It requires these client to perform extended, cross-over reaching (approximately 31) and forward reaching (approximately 23").

PERFORMANCE TIME <u>128%ile</u> QUALITY <u>150%ile</u>

BEHAVIORAL OBSERVATIONS:

Ms. Davis showed m difficulties in grasping and holding the small tiles. She indicated no physical discomforts - in performing this task.

4. UPPER EXTREMITY MMGE OF MOTI\* ON: Valpar Component Work Sample 4 measures a person's upper extremity mage of moti\* on, including shoulder, upper arm, forearm, elbow, wrist and hand. The work sample is designed to give the evaluator insight into related factors such as neck and do back fatigue, finger dexterity, and finger tactile sense. This worksample is designed to be administered to the client while standing; however, the sample can be commpleted while in a sitting position. The client's overall performance of, and playsical response to the sample, are indicators of their ability to succeed in occupations in which upper extremity range of motion is an important factor. During this task, a client can be observed to assume several body positions including wais to bending or twisting, leaning, upper extremity twisting or reaching.

| RIGHT HAND | EFT HAND | DISASSEMBLY |  |
|------------|----------|-------------|--|
|            |          |             |  |

BEHAVIORAL OBSERVATIONS:

CLERICAL COMPREHENSION AND APTITUDE: The purpose of Valuar Component Work Sample 5 is twofold: 1) The work sample measures a person's ability to per-form a variety of basic clerical tasks. It measures the client's ability wauditor—ally comprehend and accurately record telephone messages given rapidly amperceive differences and detail in mail sorting and alphabetical filing operations. It shoould be noted that the client is asked to sit while taking telephone messages in conj aunction with standing while performing mail sorting. The mail sorting requires a minimal upper extremity reaching within close distances to the body. The alphabet lical filing portion is performed while sitting and also includes message taking.

PERFORMANCE QUALITY

Mail Sorting Alphabetical Filing Message Taking

70%ile 150/ile 95%ile 135%ile 75%11e

#### **BEHAVIORAL OBSERVATIONS:**

After completing this work sample Ms. Davis indicated that she four and that she had no problems in writing, sitting or standing for the duration of this - task. This work sample lasted approximately 30 minutes. She demonstrated above average skills in mail sorting and alphabetical filing. Her errors in telephone answ wering appeared to be those of omission of information rather than incorrect recording g of information.

CLERICAL BOOKKEEPING: This work sample measures a person's ability to perform three types of bookkeeping tasks utilizing a 10-key adding machine. The task is performed in a sitting position. It requires clients to perform daily log sH heets, disbursement ledgers, and fee schedules. Basic arithmetic (adding and subt tracting) and minimal multiplication tables are necessary

> PERFORMANCE TIME 103%ile QUALITY 125%ile

#### BEHAVIORAL OBSERVATIONS:

Ms. Davis worked on this task for approximately 30 minutesafter whatich she received average to above average time and quality scores. She indicated noo difficulties with her wrists, fingers, hands or neck.

INDEPENDENT PROBLEM SOLVING: Valpar Component Work Sample 6 measurpores a person's ability to perform work tasks requiring visual comparisonand prop⊜er selection of a series of abstract designs. The purpose of the sample is to give a measure of a person's basic independent problem solving and judgemental decision m making ability. This work sample was designed to be administered to a client while sitting. This task also requires using the dominant upper extremity to mach at wavaist level when making responses.

> PERFORMANCE TIME \_\_\_100%ile\_ QUALITY 150%ile

#### BEHAVIORAL OBSERVATIONS:

After completing this task Ms. Davis indicated that her left finger s felt slightly numb; therefore, she had some difficulty in flipping the cards that were required on the task.



8. MULTI-LEVEL SORTING: Valpar Component Work Sample 7 measures a person's ability to make decisions while performing work tasks requiring physical manipulation and wisual discrimination of color-letters, color-numbers, and a combination of color-letter-numbers. It is designed to be administered to the client while sitting; however, it can be administered while in a standing position. This work sample requires extended forward reaching (approximately 27") and slight waist bending and wisting.

PERFORMANT CE TIME 90%ile QUALITY 150%ile

ESEHAVIORAL OBSERVATIONS:

Ms. Davis used her right hand to grasp small  $1\frac{1}{2} \times \frac{1}{4} \times \frac{1}{4}$ " tiles. She was observed to example ccasionally drop these tiles when grasping. She indicated the same slight numbness to her fingertips as she had so before.

9. SIMULATED ASSEMBLY: Valpar—Component Work Sample 9 measures a person's ability to work at an assembly task requiring repetitive, physical manipulation and evaluate the bilateral use of upper extremities. The work sample is characteristic of conveyor/assembly jobs in which material moves toward and away from the workers on the assembly line. It is designed to be administered to the client while standing; however, the work sample can be completed while sitting. The client's performance score is an indicator of the ability to become a successful worker in occupations requiring upper extremity, bilateral assembly skills for conveyor-type assembly occupations. It can also be used as a measure of an individual's stationary standing tolerance and manual/finger dexterities.

QUALITY 83%ile

**B**1-**E**HAVIORAL OBSERVATIONS:

Mes. Davis stood for approximately 20 minutes to complete this task after which she is ndicated that her left hand and arm felt tingly, numb and ached.

10. We HOLE BODY RANGE OF MOTION: Valpar Component Work Sample 10 measures the agility of a person's gross body movements with the trunk, arms, hands, legs, and fingers as they relate to the functional ability to perform job tasks. The work sample is designed to give the evaluator an actuarial level of client's physical agility and to provide the evaluator with ansight into the relationship of gross body movements to other "finger" manual dextermity in many differing work situations. It requires an immediately and assembly work overhead, approximately shoulder height, just below waist level, and at knee level, and maintain these positions for approximately 3-6 minutes. It should be noted that the height of the work sample is activated to the client's physical height. The overhead reaching requires the client to reach approximately 2'6" above the head.

PERFORMANCE TIME 110%ile

BEEHAVIORAL OBSERVATIONS:

Whenen working in the overhead position Ms. Davis indicated that she experienced a sight ache in the neck. However, she stated this subsided as soon as she stopped looking overhead. Ms. Davis was required to assemble and disassemble plates from a work board by turning pegs on and off a bolt. At first Ms. Davis was observed to two ist with her hands; however, ultimately she was observed to roll these pegs between both hands. This appeared to be an attempt to avoid the frequent hand two isting.

11. TRI-LEVEL MEASUREMENT: Valpasar Component Work Sample 11 measures a person's ability to perform very simple to ver precise inspection and measurement tasks. sample is designed so that thee client is forced to make decisions which increase in their level of difficulty to exdetermine if specially lathed, machined parts fit specific tolerances. The tas k also requires an individual to use the micrometer and caliper in determining standards and tolerances. This is a benchwork task and requires extended forward reaching (approximately 28") at waist level while in a sitting position.

> PERFORMANCE TIME 110%ile QUALITY 150%ile

**BEHAVIORAL OBSERVATIONS:** 

Ms. Davis was observed to have difficulty in manipulating the small precision tools of micrometer and calipers. It should be noted these tools require that finger twisting is required in order to operate them.

12. EYE-HAND-FOOT COORDINATION: Walpar Component Work Sample 12 measures a person's ability to uses eyes, hands arand feet simultaneously and in a coordinated manner, according to visual stimuli araid reaction times. The work sample is designed to be administered to the client what le in a sitting position. It requires a steady eval-uation of both upper extremitmes and lower extremity motion.

PERFORMANCE TIME 135%ile QUALITY 60%ile

BEHAVIORAL OBSERVATIONS:

Although Ms. Davis indicated raco physical discomforts in performing this task she did have some difficulty in coordinating her hands and feet simultaneously to receive a higher score.

# Vocational Development Center

The Vocational Demonstrater (VDC) of the Stout Vocational Rehabilitation Institute, University of the Stout was started in 1968 as a training and internship site for students in a masters degree program in vocational evaluation. The DC presently operates a variety of programs designed to serve handicapped amd, to some degree, disadvantaged persons in rural northwestern Wisconsin. The tenter has active programs in vocational evaluation, job seeking skills, job seeking a projects with industry program, and a large independent living project. In addition to student interns, the VDC has over 20 full-time professions staff and provides services to over 1,000 clients per year.

The vocational evaluation unit offers employment related services to clients from a variety of referral sources including Wisconsin Division of Vocational Rehabilitation (DVR), public schools, Veterans Administration, insurance companies, and attorneys. During the past year, the VDC began to offer a one week evaluation program which was aimed at two specific target groups: injured workers and DVR clients. For both groups of clients, the emphasis is upon assessing present employment potential followed by direct placement. Long-term training is usually not considered for the injured worker program and is often not considered for DVR clients. The evaluation for both groups of clients is aimed at evaluation and placement and not at the legal aspects. Thus, reports will make recommendations and suggestions, but do not contain estimates of loss of income or give a percentage of disability.

Prior to arriving at the VDC, each person in the injured worker program must have a physical capacity examination by a physician as well as an updated medical history. This service is provided through a cooperative agreement with a local clinic. In order to use evaluation tools that are within the client's physical limitations, the physical capacity examination results must be seen by the evaluator prior to planning. The following information is received on all DVR sponsored clients: application, general medical information, and the referral form (Figure 13) with specific referral questions. However, only half of the referrals contain specific questions to be answered.

Planning begins with the Vocational Evaluation Referral (Figure 13). The exact length of time needed to complete the evaluation depends upon the client's literacy skills and the type of referral questions. If the referral questions are fairly specific and if the client is fully literate, then the evaluation may be completed in as little as three days. In planning the evaluation, VDC staff try to use work samples having short administrative times and will try to combine two activities when possible. An example is testing a client's writing skills by having him/her prepare a resume. The VDC staff depend largely upon psychological tests and work samples to assess their clients. In a typical one week evaluation, three to four of the total 30 client contact hours are used for psychological testing. Most of the psychological testing is performed during the first day of evaluation. The evaluator takes each referral question and restates it as a hypothesis in the Evaluation Plan (Figure 14). Opposite the hypothesis, he/she records the procedures that will be used to test each hypothesis. The numbers before each work sample (e.g., 196 Business Letter) refer to an internal classification system used by the VDC. Usually the individual evaluation plans are prepared Monday afternoon or Tuesday morning after the initial interview, referral questions, client's goals, and counselor's goals are known.



The typical schedule for a one week evaluation is as follows:

# Day/Time

# Activity

Monday - A.M.

- Client tour and orientation; read participant's handbook
- Evaluator completes initial paper work, i.e., release agreement and initial interview form
- Administer Wide Range Achievement Test (WRAT)

A.M. and P.M.

 Evaluator alternates initial interview with interest testing. The Wide Range Interest-Opinion Test (WRIOT) or California Occupational Preference System - Inventory (COPS) are often used

P.M.

 Administer trait-and-factor work samples--dexterity and motor coordination assessed by Disc Assembly, Silo Ladder Assembly, Bridge Assembly, and Eye-Hand-Foot Coordination

Tuesday - A.M.

- Administer General Aptitude Test Battery (GATB). Computer score to: (1) obtain Occupational Aptitude Patterns (OAP), and (2) cross-reference OAP's with COPS results
- P.M.
- Review GATB and OAP results with clients

Wednesday, Thursday and Friday - A.M.

 Based on individual evaluation plan, administration of work samples and some tests for assessment and/or vocational exploration. Use of occupational information systems

Friday - P.M.

- Staffing on each client, about 45 minutes each

The WRAT and GATB are usually given to all clients. The WRAT provides a quick, yet accurate measure of client literacy while the GATB is used to measure basic vocational aptitudes that exist in almost all occupations. The amount of interest testing depends upon the referral questions. Basic finger and manual dexterity and motor coordination are assessed by several possible work samples: Silo Ladder Assembly, Bridge Assembly, Upper Extremity Range of Motion, and Disc Assembly.

At the staffing for each client, the preliminary results and tentative plans are presented to the client's counselor, insurance representative, case manager, etc. Together with the client and other staff, the options are considered. Figure 15 is the staffing report as it was completed for Ms. Smith.

The final part of the evaluation is the preparation of the Work Evaluation Report (Figure 16). The VDC format uses summary sheet as a first page. The narrative report contains sections on the referral reason, general description, immediate recommendations and long-term recommendations. Attached to this narrative report are sections on work behavior, psychological test

results, work ample results, work temperaments, work interests, work activities, working and ties, working and physical capacities. While this general format is used for all clients, the reports prepared for injured workers contain more detailed infomtion on employment history and physical performance factors.

# VOCATIONAL DEV ELOPMENT CENTER Stout Vocational Reh abilitation Institute University Of Wisconsin-Stout Menomonie, Wisconsin 54751

#### Vocational Eval-uation Referral

| Client: Joan Smith Counselor: Sue White  |
|--|
| Disability: Depression - presently in remaission   |
| Counselor impression of functional limitst—lons: Has training as radiology technician  |
| but does not wish to pursue this career  |
| Tentative vocational goals: Work more directly with people, perhaps use medical training, such as dental technician, L.P.Ne., or ward clerk  |
| Priority should be given in this evaluation to: (please check one)   |
| X Career Exploration   |
| Formal Training Feasibility  |
| X Identification of Immediate Emple oyment Possibilities   |
| Specific questions to be addressed include:  |
| 1. Short-term vocational training vs. college  |
|  |
|  |
| 2. Define her job satisfaction needs   |
|  |
|  |
| 3. Job outlook for Eau Claire area jobs  |
| The second secon |

95

VDC 87

# VOCATIONAL DEVELOPMENT CENTER Evaluation Plan

|  | . Date=   |  |
|--|---|--|
| Client:Joan Smith  | Evaluator: <u>Diane Iverson</u>   |  |
|  |   |  |
| Hypothesis   | Procedur  |  |
| What are feasible short-term training areas vs. college appropriate for her present situation?             | 11 Pharmacy Helper 12 Newspaper Classiffier 43 Precision Weighing 47 Desk Calculator 50 Sorting Inc. Mail 122 Visual Pursuit 125 Mech. Assembly   |  |
| What are Ms. Smith's job satisfaction needs?   | ABLE III  COPS - California Occapational Preference System Inventory  GATB - WCIS Career Exploration  16 PF - Personality Factor Inventory  GATB - COPS Profile tenrough Computer  sort program |  |
| What is the outlook regarding jobs<br>in the Eau Claire area? What job<br>areas are realistic to consider? | 157 Road MapReading<br>191 Business Math<br>193 Sales Book<br>195 Record Keeping<br>196 Business letter   |  |
| Would Ms. Smith be capable of nandling related medical training? (i.e., dental, LPN, ward clerk)           | 210 Blueprint Reading 244 Numerical Sorting 247 Indep. Problem Sol ving 248 Multi Level Sort  Career Corner-investigate voctech requirements and courses  |  |

#### Vocational Development Center

攀篷攀跨跨台外,只见着他还是海岸,只要放大了大型,全国大学的一个大型,大型的大型,在这个大型,这个大型的大型,只有一个大型,只要有一个大型,这个大型。

#### STAFFING REPORT

| NAME Joan Smith  | DATE 4-9-82   |
|--|---|
| COUNSELOR Sue White  | EVALUATOR Diane Iverson                                   |
| DVR  |   |
| Achievement Testing:   | WAIS V FS   |
| W.R.A.T. (4-5-82) Reading 12.9 GR 98%ile Spelling 11.9 GR 98%ile Arith. 7.6 GR 58%ile                  | GATB G 124 K 107<br>V 119 F 32<br>N 120 M 96              |
| ABLE III (Voc-Tech Norms) Vocabulary 98%ile Arith. Comp. 62%ile Arith. P.S. 97%ile Arith. Total 82%ile | s <u>110</u><br>P <u>87</u><br>Q <u>141</u> A]] H ~ OpA's |
|  |   |

Interests and Goals (expressed and tested):

Expressed: job with variety of duties Tested: Science; Technology; Outdoor

High Areas of Performance (occupational categories):

Clerical; Technical; Benchwork

#### Vocational Assets

- academic, aptitude levels
- attendance, punctuality
- work organization
- overall work quality and performance
- attention span
- work independently
- follow instructions
- reaction to supervision
- co-worker interaction

# Vocational Limitations

- depression
- lack of self-confidence; overly critical of self
- consideration of Ms. Smith's individual vocational meds

Figure 15



#### Special Considerations:

- for realistic planning within Ms, Smith's personnal needs and stress werance.

#### RECOMMENDATIONS:

#### Immediate

- (1) Vocational Counseling:
  - importance of Ms. Smith pursuing occupations which will fit her personal needs
  - cope with "pressure" from significant others
  - step-by-step goal setting
- (2) Make application to District One Technical Institute:
  - financial aides
  - contact dept. chairperson
  - waiver of med. terminology course
  - ward clerk training (Jan. 83)

# Long Term

- (1) Ward Clerk Training
  - OR -
- (2) Placement Assistance
  - Hospital Admissions Clerk
    - a. Medical clerkal background
    - b. good clericalskills,
       with medical termin ology
       helpful
  - Clerical Receptionist
     General bookkeeping;
     professional office setting
    - OR ~
- (3) Consider/investigate:
  - a. Medical Recordlechniccian Training: 2 ym, Asscociate Degree
  - b. possibility of milegee education

# Client's Reaction to Plan:

see attached sheet

 possibility of Job Experience Training and ERT

Should contact next week

Evaluator

Supervissor



(Manager) 1900年代,1900年代,1900年代,1900年代,1900年代,1900年代,1900年代,1900年代,1900年代,1900年代,1900年代,1900年代,1900年代

# STOUT VOCATIONAL REHABILITATION INSTITUTE Vocational Development Center University of Wisconsin - Stout Work Evaluation Report

| Date: Apr-ril 14, 1982   |   | Name: <u>Joan Smith</u>   |  |  |
|--|---|---|--|--|
| Counselor: Sue White   |   | I.D. Number:  |  |  |
| Referral Agency: Division of Vocational  |   | Address: P.O. Box 692   |  |  |
| Rehabilita ation, La Crosse, Wisconsin   |   | Boyceville, WI 54728  |  |  |
| Evaluation = Period: 4/5/82  | to 4/9/82 Evalua                            | tor: Diane Iverson  |  |  |
|  | Background/Demographi                       | c Data  |  |  |
| Sex: F A-ge: 27  | SOCIAL:                                     | IAL: EDUCATIONAL: atus: Last Grade Completed: 14  |  |  |
|  | Marital Status:                             |   |  |  |
| Birthdate: 11/15/54  Height: 5'3" Weight: 150  | Presently Living: Parents X                 | Voc/Tech Training: Yes X No If Yes,   |  |  |
| Use of aid: s: Yes No X  | Friends                                     | Graduate  |  |  |
| Hearing:   | Other                                       | On-The-Job Training:  |  |  |
| Vision:<br>Mobility:   | Yes X                                       |   |  |  |
|  |   | College: None   |  |  |
|  |   | dollege. Hone   |  |  |
| VOCATIONAL _: Usual or typica  | l line of work                              |   |  |  |
| Profession==al/Technical/Manag<br>Clerical armd Sales  | erial Proc                                  | essing  |  |  |
| Service  | Benc  | h Work $\overline{X}$   |  |  |
| farming/fi_sning/forestry .  | · · · · · Stru                              | ctural  |  |  |
| Work Histor-ry: Never - Worked   | Generally Jobs Wer                          | e:  |  |  |
| 1 Job -<br>2 Jobs-s  | `   | X_ Full-Time  |  |  |
| _ 3 Jap:+8   | X Entry Level                               | Short-Term  |  |  |
| X 4+ JoE-bs  | Supervisory                                 | X Long-Term   |  |  |
| DISABILITY CHARACTER ISTICS:   | As found in referral                        | information   |  |  |
| Sensor-ry impairment (vis Orthor-pedic deformity or impairment, except ampu Absentace or amputation o minor - members Neuro-logic disorders X Menta-1 illness (psychos   | functional C tations d f major and/or B S 0 | ental retardation hemical dependency (alcoholism/ rug addiction) ehavioral disorder ocio-cultural disadvantagement ther |  |  |
| The state of the s |   |   |  |  |
| VDC 14 A   | Figure 16<br>99 <b>1</b>                    | ne  |  |  |

# I. Referral Reason:

Ms. Joan Smith was referred to the Vocational Development Center for a one week work evaluation by the Division of Vocational Rehabilitation. Specific questions to be addressed during the evaluation included:

- "- Short term education vs. college.
- Job satisfaction needs.
- Outlook for the Eau Claire area regarding jobs."

Counselor's impression of the client's functional limitations included the "need for vocational goal direction and tentative vocational goals included her wish for people involvement/perhaps something that would use her prior medical knowledge." Disability indicated was depression, in remission.

# II. General Description:

Ms. Smith presented herself as an attractive, friendly, 27 year old female. During the initial interview, she indicated she had graduated from St. Margaret's Hospital School of Radiologic Technology in La Crosse in 1978. She stated she did not like x-ray work and had never worked at this occupation. She indicated it was an "assembly line" type employment. Ms. Smith stated she was looking for a job which entailed typing, spelling, light bookkeeping, and work that involved medical terminology or some medical knowledge. She further indicated that she did not want a job if it was "meaningless to me, maybe something medical or clerical would be enjoyable." She was married and resided with her spouse, their two year old son, and a sister in Boyceville. Past work history included employment as a Secretary, Cashier, and Assembly Worker. These jobs were typically full-time, long term. At the time of evaluation, she was taking Lithium medication, three times daily, for depression.

Work was generally completed in average (26-75%ile) to above average time and in above average quality. Tested interests included Science, Technology, and Outdoor areas. High areas of performance observed during the evaluation were in the Clerical, Technical, and Bench Work occupational categories. Good concentration was noted on all tasks, and Ms. Smith exhibited the determination to do her best on all samples and psychometric tests.

General attitude during the evaluation was cooperative and she exhibited a desire to determine the most feasible vocational alternatives. Observed vocational assets during the evaluation were:

- Academic and aptitude levels
- Attendance and punctuality
- Work organization
- Overall work quality and performance
- Attention span

The Million of the State of the

- Working independently
- Following all instructions
- Reaction to supervision
- Co-worker interaction



Vocationally limiting factors included a long history of depression, a low self-confidence, and being overly critical of herself and the need to consider her own individual vocational needs in the future.

#### III. Recommendations:

The following recommendations are offered in view of evaluation results. They were discussed with Ms. Smith and Ms. Sue White, DVR counselor, at the 4/9/82 staffing.

# A. Immediate Recommendations:

1. Vocational counseling.

The importance of Ms. Smith pursuing an occupation which would fit her personal vocational needs was discussed throughout the evaluation and during the staffing. She reported feelings of difficulty accepting her limitations regarding vocational needs and her lowered stress tolerance. She indicated a feeling of "pressure" from significant others in her family regarding having not "lived up" to her capabilities. Discussion of a step-by-step goal setting process was initiated for realistic planning within her personal needs.

2. District I Technical Institute.

It was suggested that Ms. Smith make application to District I Technical Institute and file for financial aids. Ward Clerk training was investigated with an opening in January of 1983. With consideration of her X-ray Technician background, a waiver of the Medical Terminology course would be permitted. Ms. Smith could contact the department chairperson and discuss the possibilities of this program. With the course opening in January, 1983, sufficient time would be allowed for further decision making and preparation for training.

Job experience training.

During the evaluation staffing, the possibility of Employment Readiness Training and Job Experience Training was discussed. In view of her expressed desire to actively continue with rehabilitation planning, this unpaid work experience could provide needed positive reinforcement and exposure to a full-time work environment. Suggested areas of possible employment included that of a receptionist or insurance clerk within a medical setting.

#### B. Long Term Recommendations:

1. Ward Clerk training, January, 1983.

OR

Placement assistance.



Ms. Smith's work skills and academic and aptitude levels indicated she would be capable of full-time, competitive employment. Possibilities for investigation included:

a. Hospital Admissions Clerk.

- Medical/clerical background important.
   Good clerical skills with medical terminology was considered helpful for this occupation.
- b. Clerical/Receptionist. She possessed the necessary general bookkeeping skills and would be an asset to a professional office setting. Suggestions in this area included employment in a doctor's or dentist's office.

0R

- 3. Further vocational exploration.
  - Medical Records Technician training; two year associate dearee.
  - Investigate the possibility of a college education. Ь.

In summary, behaviors and performance observed during the evaluation suggested success with rehabilitation planning. However, special consideration would need to be given to her history of depression and fears regarding vocational planning.

> Diane Iverson Vocational Evaluator

st

# Vocational Development Center

#### WORK BEHAVIOR RATING FORM

| Men | rage _  | 0 | I   | <u>.                                    </u> |    |
|-----|---|---|-----|--|----|
|     | <u>Key</u>  |   |     |  |    |
|     | A - Vocational Asset L - Vocational Limitation U - Not Observed NA - Not Applicable |   |     |  |    |
|     | Behavior Factors  |   | Rat | ing  |    |
| 1.  | Personal Appearance   | A | U   | L  | NA |
|     | Hygiene   | Х |     |  |    |
|     | Grooming  | Х |     |  |    |
|     | Dress   | X |     |  |    |
| 2.  | Conformity to Rules and Regulations at Work   | A | U   | L  | NA |
|     | Attendance  | Х |     |  |    |
|     | Punctuality   | X |     |  |    |
|     | Notification given when absent/late   |   |     |  | X  |
|     | Responsibility for assigned projects  | х |     |  |    |
| 3.  | Conformity to Rules and Regulations at Dorm   | A | U   | L  | NA |
|     | General behavior  |   |     |  | Х  |
|     | Curfew rules followed   |   |     |  | Х  |
| 4.  | Reactions to Assigned Work  | A | U   | L  | MA |
|     | Reaction to distractions  | Х |     |  |    |
|     | Attention span  | х |     |  |    |
|     | Reaction to unpleasant or repetitive tasks  | X |     |  |    |



Number of personal complaints . . . . . . . . .

# WORK BEHAVIOR RATING FORM

(continued)

| Nan | ne:Page   | 6   | 0:       | €   | 2   |    |
|-----|---|-----|----------|-----|-----|----|
|     | <u>Key</u>  |     |          |     |     |    |
|     | A - Vocational Asset L - Vocational Limitation U - Not Observed NA - Not Applicable | n   |          |     |     |    |
|     | Behavior Factors  |     |          | Rat | ing |    |
| 5.  | Interpersonal Traits  |     | <u>A</u> | บ   | L   | NA |
|     | Cooperation with staff  |     | Χ        |     |     |    |
|     | Reaction to close supervision   |     | Х        |     |     |    |
|     | Reaction to suggestions or constructive criticism                                   |     | X        |     |     |    |
|     | Reaction to pressure from supervisor  |     | Х        |     |     |    |
|     | Request for assistance when necessary   |     | Х        |     |     |    |
|     | Appropriate questions asked   |     | Х        |     |     |    |
|     | Co-worker interaction   |     | Χ        |     |     |    |
| 6.  | Initiative Factors  |     | A        | U   | L   | NA |
|     | Working without supervision   |     | Χ        |     |     |    |
|     | Amount of supervision required after initial orientation to ta                      | ısk | Χ        |     |     |    |
|     | Independent return to work after breaks   |     | Χ        |     |     |    |
|     | Recognition of errors   |     | Χ        |     |     |    |
|     | Correction of errors  |     | Х        |     |     |    |
|     | Maintenance of orderly work area  |     | Χ        |     |     |    |
| 7.  | Other   |     | A        | บ   | L   | NA |
|     |   |     | X        |     | _   |    |
|     |   |     | Х        |     |     |    |
|     |   |     |          |     | Х   |    |

Comments:

# Vocational Development Center

# PSYCHOMETRIC TEST APPENDIX SHEET

|          | Name:   | Page <u>7</u> of <u>12</u> |
|----------|---|----------------------------|
| <u>A</u> | A. Psychometric Tests:  California Occupational Preference System  Science (Professional) | Therest                    |
|          | Kuder Preference Record-Vocational-Form CP         Raw Score         0-Outdoor            | %11e                       |



## Vocational Development Center

## PSYCHOMETRIC TEST APPENDIX SHEET

| Name:   |                 |                            | Page <u>8</u> of <u>12</u>         |
|---|-----------------|----------------------------|------------------------------------|
| B Adult Basic Learning Exam III   |                 |                            | Achievement                        |
| Score   | <u>%11e</u>     | Stanine                    | 2                                  |
| Vocabulary  | 92<br>98        | <u>8</u><br>9              | Grade 12 norms<br>Voc. Tech. norms |
| Spelling  | *******         |                            | Grade 12 norms<br>Voc. Tech. norms |
| Reading   |                 |                            | Grade 12 norms<br>Voc. Tech. norms |
| Arithmetic Computation 28   | 32<br>62        | <u>4</u><br>6              | Grade 12 norms<br>Voc. Tech. norms |
| Arithmetic Problem Solving 38   | _90<br>_97      | 8<br>9                     | Grade 12 norms<br>Voc. Tech. norms |
| Arithmetic Total 66   | _52<br>_82      | <u>5</u>                   | Grade 12 norms<br>Voc. Tech. norms |
| Comments: Vocational technical students comprised the second norm gro   | in<br>up used   | •                          |                                    |
| C Wide Range Achievement Test   |                 |                            |                                    |
| Reading       Grade       %ile         12.9       98         Spelling       11.9       92         Arithmetic       7.6       58 | $\frac{-1}{12}$ | rd Score<br>30<br>21<br>03 | Norms: Age 25-34                   |



## Vocational Development Center

## PSYCHOMETRIC TEST APPENDIX SHEET

|   | Name:                                    |  |             |           | Page <u>9</u> of <u>12</u>   |
|---|--|--|-------------|-----------|--|
|   |  | i  |             |           | <u>Aptitude</u>  |
|   | Bennett Mechanical Comprehens            | ion Test                                       | (Form _     | _)        | Comments:  |
|   | %ileNorm Group:                          |  | <del></del> |           | - Commerce C |
|   | %ileNorm Group:                          |  |             |           | <del>-</del><br>   |
| D | General Aptitude Test Battery            | Apt. Sc.                                       | 1 SEM       | +1 SEM    |  |
|   | GGeneral Learning                        | 124  | 6           | 130       |  |
|   | VVerbal                                  | 119  | 6           | 125       |  |
|   | NNumerical                               | _120   | 6           |           | All OAP's qualify = F  |
|   | SSpatial Perception                      | 110  | 8           | 118       |  |
|   | PForm Perception                         | <u>87</u>                                      | <u>9</u>    | <u>96</u> |  |
|   | QClerical Perception KMotor Coordination | <u> 141                                   </u> | 9           | _150      |  |
|   | FFinger Dexterity                        | _107   | 12          | 114       |  |
|   | MManual Dexterity                        | 82<br>96                                       | 11          | 94<br>107 |  |
|   | Minnesota Spatial Relations 7            | <u>l'est</u>                                   |             |           |  |
|   | 941a Norm Croup:                         |  |             |           |  |

VDC 132

#### В. Work Samples:

## UW-STOUT WORK SAMPLES

# Professional, Technical, and Managerial 11. Pharmacy Helper

12. Newspaper Classifier

## Clerical and Sales

43. Precision Weighing

47. Desk Calculator-Revised

50. Sorting Incoming Mail

56. Typist

## Machine Trades

94. Mechanical Assembly

## Bench Work

122. Visual Pursuit

125. Mechanical Aptitude

## TOWER WORK SAMPLES

## Clerical

193. No. 5 Sales Book 195. No. 6 Record Keeping

## VALPAR COMPONENT WORK SAMPLE SERIES

247. No. 6 Independent Problem Solving

## SPECIAL PROJECTS

#### Miscellaneous

304. WCIS - GATB Career Exploration



| Pag | re | 1 | 1 | o | f | 1 | 2 |
|-----|----|---|---|---|---|---|---|
|     |    |   |   |   |   |   |   |

C. Work Temperaments: The client is capable of performing in work situations described below. Ratings are the result of observations of work performance and discussions with the client concerning his/her work. (U indicates factor was unobserved.)

|     | WORK TEMPERAMENTS   | YES | NO | U        |
|-----|---|-----|----|----------|
| 1.  | A variety of duties often characterized by frequent change. | X   |    |          |
| 2.  |   |     |    | $\Box$   |
|     | to set procedures or sequences.                             |     | x_ | <u> </u> |
| 3.  |   |     |    |          |
|     | for independent action or judgment in solving job problems. |     | X. |          |
| 4.  |   |     |    |          |
|     | the activities of others (e.g., a supervisor).              | Х   |    |          |
| 5.  |   |     |    |          |
|     | receiving instructions (e.g., a foreman, counselor,         |     |    |          |
|     | secretary).   | X   |    |          |
| 6.  |   |     |    |          |
|     | although the job may be integrated with that of others.     |     | X  |          |
| 7.  |   |     |    |          |
|     | ments about ideas or things.                                | _X  |    | L        |
| 8.  | Performing adequately under stress when faced with the      |     |    |          |
|     | critical or unexpected, or taking risks.                    |     | X  |          |
| 9.  |   |     |    |          |
|     | criteria (e.g., taste) or on the basis of one's inter-      |     |    |          |
|     | pretation of feelings, ideas, facts, data, laws, etc. (X)   | Х   |    |          |
| 10. | Making judgments and decisions on the basis of objective    |     |    |          |
|     | criteria (e.g., physical measurements) or working to set    |     |    |          |
|     | limits, tolerances, or standards. (Y)                       | X   |    |          |

| D. | Vocational Interests: Clients' stated vocational/avocational interests were as follows: "job with a variety of duties." |  |
|----|---|--|
|    |   |  |
|    | Tested interests (), (), () revealed Science; Technical; Outdoor.   |  |

E. Work Activities: The client exhibited a preference toward working with the following activities during the evaluation period.

| WORK ACTIVITIES  | YES | NO | U |
|--|-----|----|---|
| <ol> <li>Activities involving things and objects.</li> </ol>                     |     | Х  |   |
| 2. Activities involving business contact with people.                            | Х   |    |   |
| <ol><li>Routine, concrete, organized activities.</li></ol>                       | X   |    |   |
| 4. Working for the good of people (as in social welfare), or                     |     |    |   |
| dealing with people and language in social situations.                           | Х   |    |   |
| 5. Increasing his prestige or obtaining the esteem of others.                    | X   |    |   |
| 6. Activities involving people and the communication of ideas.                   | Χ   |    |   |
| 7. Scientific or technical activities.   | Х   |    |   |
| 8. Abstract or creative activities.  | Χ   |    |   |
| <ol> <li>Non-social activities using processes, machines, techniques.</li> </ol> |     | Χ  |   |
| 10. Activities resulting in tangible, productive satisfaction.                   | X   |    |   |

F. Working Conditions: The client is capable of working under the following conditions.

|             | WORK CONDITIONS  |     |     |                 |
|-------------|--|-----|-----|-----------------|
|             | Inside (indoors)                                       | YES | 110 | ╁               |
| 2.          | Outside (outdoors)                                     |     |     | V               |
| _3.         | Extremes of cold plus temperature changes.             |     |     | ₩.              |
| 4.          | Extremes of heat plus temperature changes.             |     |     | Ŷ               |
| 5.          | Wet and humid (extremes)                               |     |     | Ιŷ              |
| 6.          | Noise and vibration (extremes)                         |     |     | Ŷ               |
| 7.          | Hazards, (mechanical, electrical, heights, etc.)       |     |     | Ŷ               |
| 8.          | Fumes, odors, toxic conditions, dust, poor ventilation |     |     | <del>  ^-</del> |
| <del></del> | discomforts effecting respiratory system.              |     | '   | x               |

G. <u>Physical Capacities</u>: The client should be capable of performing the following physical activities on a job.

| PHYSICAL DEMANDS  | YES         | NO | U                |
|---|-------------|----|------------------|
| <ol> <li>Lifting, carrying, pushing, pulling (strength):</li> </ol> |             |    | <del></del>      |
| . Sedentary work (lift max. of 10 lbs.; mostly sitting)             | Y.          |    | <del>  -  </del> |
| . Light work (lift max. of 20 lbs.; or much walking or              |             |    |                  |
| standing; or many work movements while sitting)                     | X           |    |                  |
| . Medium work (lift max. of 50 lbs., often carry up to              |             |    |                  |
| 25 lbs., and many work movements while sitting)                     |             |    | x                |
| . Heavy work (lift max. of 100 lbs., often carry up to              |             |    |                  |
| 80 lbs.)  |             |    | Y                |
| . Very heavy work (lift over 100 lbs., often carry up               |             |    |                  |
| to 80 lbs.)   |             | 1  | Y                |
| 2. Climbing (agility); balancing (equilibrium)                      |             |    |                  |
| . Stooping, kneeling, crouching, crawling (use of lower             |             |    |                  |
| extremities and back muscles)                                       | X           | j  |                  |
| . Reaching, handling, fingering, feeling (use of upper              | <del></del> |    |                  |
| extremities)  | l x l       | l  |                  |
| 3. Talking and hearing (as required on the job)                     | 1 x         |    |                  |
| 4. Seeing (eyesight adequate for safety and for accuracy)           | Y           |    |                  |



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APPENDICES



| Αı | gc | en | di | х | Α |
|----|----|----|----|---|---|
|    |    |    |    |   |   |

| Date |  |
|------|--|
| Time |  |

## Initial Interview Information

| Name                  | AND                          |             | Birthdate                              |                       |     |  |  |  |
|-----------------------|------------------------------|-------------|--|-----------------------|-----|--|--|--|
| Address               |                              | <del></del> | ************************************** |                       |     |  |  |  |
|                       |                              |             |  | urity Number          |     |  |  |  |
|                       |                              |             |  | Sex                   |     |  |  |  |
| Personal History      |                              |             |  |                       |     |  |  |  |
| Place of Birth        |                              |             |  |                       |     |  |  |  |
| Father's Occupation _ |                              |             |  | cupation              |     |  |  |  |
| Number of Brothers    |                              |             |  |                       |     |  |  |  |
| at death for any de   | c <b>e</b> ased family membe | rs) _       |  | - causes of death and | age |  |  |  |
|                       |                              |             |  |                       |     |  |  |  |
|                       |                              |             |  |                       |     |  |  |  |
| Marital Status        | Da t                         | e of        | Marriage                               |                       |     |  |  |  |
| Family Members Living |                              | ł           |  |                       |     |  |  |  |
| Name                  | Relationship                 | Age         | Name                                   | Relationship          | Age |  |  |  |
| Name                  | Relationship                 | Age         | Name                                   | Relationship          | Age |  |  |  |
| Name                  | Relationship                 | Age         | Name                                   | Relationship          | Age |  |  |  |



| Living   | Arrang <b>e</b> ments: | Own Home                |  | _ Amount Pe     | er Month                                |
|----------|------------------------|-------------------------|--|-----------------|---|
|          |                        | Rent Home               |  | Amount Pe       | er Month                                |
|          |                        | Rent Apartm <b>e</b> nt |  | Amount Pe       | er Month                                |
|          |                        | Share Apartment         |  |                 | er Month                                |
|          |                        | Other                   |  |                 | er Month                                |
| Present  | : Monthly Incom        | a •                     |  |                 |   |
|          |                        |                         | Worke                                  | r's Compensatio | on                                      |
|          |                        | AFDC                    |  |                 |   |
|          | Interest               |                         |  | -               |   |
|          |                        |                         | unts)                                  |                 |   |
|          |                        |                         |  |                 |   |
| Debts:   | Home Mortage I         | Remaining               |  |                 |   |
|          | Car/truck Loam         | n(s) Remaining _        |  |                 |   |
|          | Credit Cards           |                         |  | -               |   |
|          |                        |                         |  | _               |   |
|          | Personal Loans         |                         |  | <del>-</del>    |   |
|          |                        |                         |  | _               |   |
|          | Other                  |                         | ······································ | _               |   |
|          |                        |                         |  | _               |   |
| SSDI - I | Oate of Applica        | tion                    | (                                      | Current Status  |   |
|          |                        |                         |  |                 | us                                      |
|          |                        |                         |  |                 |   |
|          |                        |                         |  |                 |   |
|          |                        |                         |  |                 |   |
|          |                        |                         |  |                 |   |
|          |                        |                         |  |                 | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |



## Educational History

|                              | <br>  School Attended                        | Dates<br>Attended | Gr <b>a</b> des - Courses           |
|------------------------------|--|-------------------|-------------------------------------|
| Grade School                 |  |                   |                                     |
| High School                  |  |                   |                                     |
| Vocational School            |  |                   |                                     |
| Business College             |  |                   |                                     |
| Jr. College                  |  |                   |                                     |
| College                      |  |                   |                                     |
| Grad School                  |  |                   |                                     |
| Other                        |  |                   |                                     |
| Apprenticeships              |  | Dates             |                                     |
| Number of Classroom          | m Hours                                      |                   |                                     |
| Do you hold any lic          | d? What<br>censes, certificates,<br>ense? If | permits, auth     | orizations, etc., other than a<br>? |
| Level of Literacy S  Reading |  | Material Read     |                                     |
|                              |  |                   | Shopping Lists                      |
|                              |  |                   | Complete Income Tax                 |
|                              |  |                   |                                     |
|                              |  |                   |                                     |
|                              |  |                   |                                     |
|                              |  |                   |                                     |
|                              |  |                   |                                     |

# Employment History Military Background Branch \_\_\_\_\_ Dates of Service \_\_\_\_ Service Schools Attended \_\_\_\_\_ M.O.S. \_\_\_\_\_ What Did You Do \_\_\_\_\_ Rank At Discharge \_\_\_\_\_\_ Type of Discharge \_\_\_\_\_ Service Connected Disability \_\_\_\_\_ What \_\_\_\_ Past Employment Company \_\_\_\_\_ Dates \_\_\_\_ Job Title \_\_\_\_ Job Tasks \_\_\_\_\_ Physical Demands \_\_\_\_\_ Final Salary \_\_\_\_\_ Reason For Leaving \_\_\_\_\_ Company \_\_\_\_\_ Dates \_\_\_\_ Job Title \_\_\_\_ Physical Demands \_\_\_\_\_



Final Salary \_\_\_\_\_ Reason For Leaving \_\_\_\_\_

| Company          | Dates              | Job Title |                                       |
|------------------|--------------------|-----------|---------------------------------------|
| Job Tasks        |                    |           |                                       |
|                  |                    |           |                                       |
|                  |                    |           |                                       |
| Physical Demands |                    |           |                                       |
|                  | Reason For Leaving |           |                                       |
|                  |                    |           |                                       |
| Company          | Dates              | Job Title |                                       |
| Job Tasks        |                    |           |                                       |
|                  |                    |           |                                       |
|                  | <del></del>        |           | <del></del>                           |
| Physical Demands |                    |           |                                       |
| Final Salary     | Reason For Leaving |           | <del></del>                           |
|                  |                    |           |                                       |
| Company          | Dates              | Job Title | · · · · · · · · · · · · · · · · · · · |
| Job Tasks        |                    |           |                                       |
|                  |                    |           |                                       |
|                  |                    |           |                                       |
|                  |                    |           |                                       |
| Final Salary     | Reason For Leaving |           |                                       |
|                  |                    |           |                                       |
| Company          | Dates              | Job Title |                                       |
| Job Tasks        |                    |           | <del></del>                           |
|                  |                    |           |                                       |
|                  |                    |           |                                       |
|                  | Reason For Leaving |           |                                       |

| Present Employment      |                    |                  |                     |
|-------------------------|--------------------|------------------|---------------------|
| Are You Working Now     | Company            |                  |                     |
| Date Started            |                    |                  |                     |
| Job Tasks               |                    |                  |                     |
|                         |                    |                  |                     |
|                         |                    |                  |                     |
| Physical Demands        |                    |                  |                     |
| Salary                  |                    |                  |                     |
| Comments:               |                    |                  |                     |
|                         |                    |                  |                     |
|                         |                    |                  |                     |
|                         |                    |                  |                     |
|                         |                    |                  |                     |
| Medical History         |                    |                  |                     |
| Family Physician's Name |                    |                  |                     |
| Address                 |                    |                  |                     |
| Serious Childhood Illne | ss or Injuries     |                  |                     |
|                         |                    |                  |                     |
|                         |                    |                  |                     |
| What injury/accident/il | lness did you have | that caused your | present disability? |
| Date Where              |                    | Describe         | How Occurred        |
|                         |                    |                  |                     |
|                         |                    |                  |                     |
| Describe Injury         |                    |                  |                     |
|                         |                    |                  |                     |
| reating Physician       |                    |                  |                     |



| Hospitalizations (Nonsur | rgical) |
|--------------------------|---------|
| Dates                    | Where   |
| Reason                   |         |
|                          |         |
|                          |         |
| Dates                    | Where   |
|                          |         |
|                          |         |
|                          |         |
| Na tes                   | Where   |
|                          |         |
|                          |         |
| Treating rnysteran       |         |
| Dates                    | Where   |
|                          |         |
|                          |         |
| Treating Physician       |         |
|                          |         |
| Surgery                  |         |
| Dates                    | Where   |
| What Kind                |         |
|                          |         |
|                          |         |
| Dates                    | Where   |
|                          |         |
| Treating Physician       |         |

| Dates              | Where                    |             |                        |                     |
|--------------------|--------------------------|-------------|------------------------|---------------------|
|                    |                          |             |                        |                     |
|                    | hysician                 |             |                        |                     |
|                    |                          |             |                        |                     |
| Psychologi         | cal/Psychiatric/Counsel  | ing         |                        |                     |
| Dates              | Where                    | <del></del> |                        |                     |
|                    |                          |             |                        |                     |
| Treating P         | rofessional              |             |                        |                     |
| Dates              | Where                    |             |                        |                     |
|                    |                          |             |                        |                     |
| Treating Pr        | rofessional              |             | :                      |                     |
|                    | esently being treated fo |             |                        |                     |
|                    | ysician                  |             |                        |                     |
| Do you use         | any medically prescribe  | d assisti   | ve aid (e.g., cane, br | aces, hearing aid)? |
|                    | aking Prescription Medi  |             |                        |                     |
| Date<br>Prescribed | Name of Drug             | Dosage      | Physician              | Purpose of Drug     |
|                    |                          |             |                        |                     |
|                    |                          |             |                        |                     |
|                    |                          |             |                        |                     |
|                    |                          |             |                        |                     |
|                    |                          | <u> </u>    |                        |                     |

| driving, walking)?                    | strictions on your activities (e.g., fifting,       |
|---------------------------------------|---|
| Physician Restriction                 |   |
| Physician                             | Restriction   |
| Comments:                             |   |
|                                       |   |
|                                       |   |
|                                       |   |
|                                       |   |
| Present Activities                    |   |
| Sleeping Habits: Time to Bed          | Time Get Up   |
| Get Up At Night How (                 | Often Reason  |
|                                       |   |
| Activities performed inside home      | (e.g., cook, cleaning)                              |
|                                       |   |
|                                       |   |
|                                       |   |
| Activities performed outside home     | e (e.g., cut grass, garden, automobile maintenance) |
|                                       |   |
|                                       |   |
| Present hobbies or sports (e.g.       | reading chafte)                                     |
| rresent nobbles of sports (e.g.,      | reading, crafts)                                    |
|                                       |   |
|                                       | onger be performed (e.g., bowling, hunting)         |
| · · · · · · · · · · · · · · · · · · · | J   |
|                                       |   |

| Present social activities (e.g  | g., religious, lodge)          |
|---------------------------------|--------------------------------|
|                                 |                                |
|                                 |                                |
| Self-Description of Medical Pr  | roblems                        |
| Part of Body                    | Description of Problem, if any |
| Head                            |                                |
| Neck                            |                                |
| Shoulders                       |                                |
| Arms                            |                                |
| Hands                           |                                |
| Fingers                         |                                |
| Chest                           |                                |
| Upper Back                      |                                |
| Lower Back                      |                                |
| Hips                            |                                |
| Legs                            |                                |
| Änkles                          |                                |
| Feet                            |                                |
| Other                           |                                |
| Self-Description of Physical Ca | apacities                      |
| Activity                        | Reason for Restriction         |
| Sitting - how long min          |                                |
| Standing - how long mi          |                                |
| Walking - how long min          | n./hrs.                        |
| - how far min.                  | ./hrs.                         |
| Driving - how long min          |                                |

| Lifting - floor level - how muchlbs.    |                    |
|---|--------------------|
| - how often hr./day                     |                    |
| table level - how muchlbs.              |                    |
| - how often hr./day                     |                    |
| Carrying - how muchlbs.                 |                    |
| - how often hr./day                     |                    |
| - how far feet                          |                    |
| Bending - how far degrees               |                    |
| - how often hr./day                     |                    |
| Reaching - front - how often hr./day    |                    |
| - overhead - how often hr./day          |                    |
| Manipulation with hands/fingers         |                    |
|   |                    |
| Other                                   |                    |
| Do you smoke? How much? Do y            | ou drink alcompol? |
| How much? Do you have a driver's licens |                    |
| revoked? Suspended? Restrictions?       |                    |
| Removed for any reason?Explain any "y   |                    |
| •                                       |                    |
|   |                    |
| Comments                                |                    |
|   |                    |
|   |                    |
|   |                    |
|   |                    |
|   |                    |

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## Appendix B

## Planning - Case Study

#### Vocational Evaluation Referral

Client: Ral ph J. Andersen

Counselor: John C. Nelson

Da sability:

Low back pain with some loss of motion. Possible chemical de-

pendency/personality disorder

Counselor Impression of Functional Limitations: Moderate

Tentative Vo € ational Goals: C

Client undecided as to what job areas, but stresses

the need for direct placement

## Specific Questions to be Addressed Include:

Assess client to provide direct placement

3. Check out personality problems

## Co-mments:

Mr. And resen indicated that he does not do well academically and I believe is not too irraterested in formal training; however, this can be pursued with him. He seemed to be angry and embarrassed about his poor academic ability. He has recently settled a worker's compensation case against his former employer and was awarded as 30% permanent partial disability; he is bitter over this decision and over the fact that the monthly payment is no where near what he expected. I believe that the reality of his situation has hit him very hard and that he now realizes that he must work to help support his family. He seems to have furnictioned ma reginally until his accident and may need some long-term support of some type.

Enclosed are copies of the most relevant medical reports and the notes on my initial in terview with Mr. Andersen.

John C. Nelson

November 15, 1982

#### Referral Information On:

Ralph J. Andersen 49 East Roosevelt Avenue Chippewa Falls, WI 54749

Date of Birth: June 13, 1940; present age - 42

Personal History: He was born and raised on a 20 00 acre farm near Gordon, Wisconsin. His father was a dairy farmer and a part-time pulp wood cutter; his mother was a full-time homemaker. Both paren nts are alive and in good health. He is the oldest of four children and has as two brothers and one sister. No family health problems were reported.

He was married on April 10, 1961, to Jodi St tankowski; his wife has been employed for the last five years as a packaging manachine operator at ARCO Plastics; she earns \$4.75 per hour. They have those children: Edith (age 17, born April 21, 1965) and Nicholas (born August 199, 1970, age 12).

The family lives in an older frame house in Chippewa Falls on which there is a \$12,050 mortgage; monthly mortgage payments are \$156.00. They have no other debts.

## Educational History:

1957 - Gordon High School, Gordon, WI - He completed 11 grades before dropping out at the end of his Junionar year. He took courses in English, social studies, two years of machine shop, 2 years of automobile shop, and 3 years of vocatitional agriculture.

He has no other education. He claims limited arithmetic skills and describes himself as a "poor reader."

## Employment History:

1957-1960 - Farmer, Gordon, Wisconsin. For three years he worked with his father on the family farm raising corn, soy beans, and hay. He cared for and milked about 45 dairy cows. He operated various types of farm machinery to perform fixeld work and performed routine maintenance and repairs on equipment. However, he performed no record keeping functions and made no management decisions.

In the winter he and his father cut poulp under contract to a local paper mill. He operated a skidder, chain saw, and a truck with a loader.

1961-1965 - Wisconsin Central Railroad, Chipopewa Falls, Wisconsin. He was employed for five years as a section gang worker on tracks between Chippewa Falls and AbbotsfordH, Wisconsin. Under the direction of the foreman, he was part of a six-man crew which



repaired and replaced track and turnouts. He operated portable grinders, spike pullers, and tie pullers to remove old ties, fish plates, and rails. Ties and rails were replaced and respiked; this occupation involved the operation of much heavy, specialized equipment as well as exposure to all types of weither. Final salary - \$5.50 per hour.

1965-April 20, 1980 - Northern Wisconsin Trucking, Eau Claire, Wisconsin. For 15 years he drove a semi-truck to transport gasoline, fuel oil, and diesel fuel from a pipeline terminal to various gasoline stations and fuel oil distributors. He worked within a 200 mile radius of Eau Claire and was rarely gone overnight. After driving the truck to the filling rack, he pumped prescribed quantities into the tanks, checked meters and recorded the amounts loaded. After driving the semi-truck to the customer's site, he connected hoses to deliver the liquids. He gave a ticket of the amount to the customer. The job required climbing on top of the tank truck, bending, lifting, and dragging of hoses up to 20 feet, weighing over 100 lbs.

Bruce C. Nordstrom Orthopedic Clinic, LTD 121 Second Street Eau Claire, Wisconsin 54701

May 19, 1982

Ms. Claudia S. Dahl Attorney at Law Schofield, Feldman, Schultz and Dahl P.O. Box 6891 Eau Claire, WI 54701

Re: Ralph J. Andersen Your File #0018-90

Dear Attorney Dahl:

Mr. Andersen was referred to me by Dr. Jones of Chippewa Falls for the treatment of low back pain. His history is chronic in that he had been to the Fort Snelling VA Hospital on five occasions and had also consulted with Dr. Joyce Lund at Duluth on April 10, 1979, because of low back pain, which had a gradual onset over the past five years. Prolonged sitting, as required by his occupation of truck driver, made his back symptoms worse. The VA hospital recommended an aspirin-type medication for pain in March, 1979, but this caused gastrointestional problems, so he had to stop this medication. He stopped truck driving because of severe back pain from February to August, 1979, but returned to work until April 20, 1980, when he quit because of a bladder infection.

He stated that swimming helps relieve the pain and the he can drive 50 miles to his hunting cabin. My examination on July 31, 1980, revealed a good range of back mobility with intact reflexes and straight-leg raising. There was, however, a congenital shortness of the right leg of 1/2 inch. A heel lift was suggested. He was reexamined on August 19, 1980, and at that time he stated he got no benefit from the heel lift.

He received two operations for his lower back at St. Olaf Hospital in Altoona by Dr. George Fascinno. The first was a laminectomy at L4-L5 in January, 1981. The second surgery was an L5-S1 fusion with a refusion of the L4-L5 in August, 1981. He now states that he feels "worse now then before the first operation." When seen on March 8, 1982, the examination revealed a considerable restriction of back mobility; he can only flex 45 to 50 degrees and had a very slow, dysrhythmic rise to the erect position. There was no evidence of sciatica.

He has also reported increased alcohol intake during the past two years and has frequently mixed beer with Phenaphen #3, which were prescribed for the relief of low back pain.

My major diagnosis is post-laminectomy syndrome; there is pain and spasm with restricted mobility of the back. The spinal disability is about 30% and is regarded as permanent. The secondary diagnosis is possible alcohol/drug dependency with personality disorder. The patient's irritable, restless nature and present spinal disability does not indicate that any type of work is feasible.

Attached are photocopies of my clinical notes. If you have any questions, please write.

Bruce C. Nordstrom, M.D.

B. C. Mordstrom, M.D.

## WC-16-B

Practitioner's Report on Accident or Industrial Disease in Lieu of Testimony

- 1. Name: Ralph J. Andersen
- 2. Employer: Northern Wisconsin Trucking, Eau Claire, Wisconsin
- 3. Date of Accident or First Illness: February 2, 1979
- 4. State in patient's own words the accident or work exposure to which he attributes the condition for which he saw you:

Mr. Andersen was examined by Dr. Jones in April, 1979. Mr. Andersen stated that for five years he had noticed gradual increasing onset of low back pain without any history of a specific injury. In the past two months this pain has become increasingly severe and disabling; he has a marked amount of pain when sitting. Mr. Andersen is employed as a truck driver and reached the point on February 2, 1979, when he "just couldn't take it (the pain) any longer." He described no radiation of pain, no leg pain and is not particularly aggravated by walking, bending, or lifting. He was off work from February 2 to August, 1979; he returned to work in September, 1979, and worked until April 20, 1980.

5. Give complete account of the nature and extent of disability:

When he was seen by me on December 6, 1980, the situation was a patient with a two-year history of chronic low back pain without any radiation. This was verified on several occasions. Based on a review of X-rays, he probably had a spondylolysis; the problem is, however, one of mechanical back pain. He received no relief from the pain and had missed work for about six months in 1979; he has not worked since April, 1980. He was felt to have been a good candidate for a fusion from L-4 to the sacrum.

- 6. Did you treat patient: Yes
- 7. Date of last examination: April 15, 1981
- 8. Date disability from work began: December 15, 1980
- 9. <u>Date injured was or will be able to return to a limited type of work:</u> Unknown
- 0. Estimate-percentage of disability: 15% if he gets a solid fusion.

B. C. Mordstrom, M.D.

Bruce C. Nordstrom, M.D.

Bruce C. Nordstrom Orthopedic Clinic, LTD 121 Second Street Eau Claire, Wisconsin 54701

March 19, 1982

Ms. Claudia S. Dahl Attorney at Law Schofield, Feldman, Schultz and Dahl P.O. Box 6891 Eau Claire, WI 54701

Re: Ralph J. Andersen

Dear Attorney Dahl:

Mr. Andersen was seen and examined in my office on March 8, 1982, not having been seen since July 31, 1980. I do not have any reports, beyond the patient's statement of September 2, 1980, the handwritten one you sent. I was somewhat surprised to learn that he had been operated, in the interval since I have seen him in 1980. He had precisely inquired of my opinion at that time and I did not feel that surgery offered him any benefits.

The problem appears to be a degenerative arthritic one, rather than industrial trauma. Could I please have the data you have from various treatment sources to guide me in my analysis?

Yours sincerely,

B.C. Mordstrom, M.D.
Bruce C. Nordstrom, M.D.



## Appendix C - Some Appropriate Tests and Work Samples

This appendix will provide the evaluator with a list of commonly used psychological tests and work samples that should be consulted during evaluation planning. Table 1 presents summary information on tests; Table 2 presents similar information on work samples.\* The headings on Table 1 are explained as follows:

## Psychological Tests

Name - Full name as listed in The Eighth Mental Measurements Yearbook and in test manual.

Scores - What are the scores and how are they presented?

Norm Groups - Major norm groups are listed.

Administration - Individual or group? Total administration time.

Special requirements, paper-and-pencil or apparatus?

Estimated reading level.

Publisher - Where available.

The tests are classified according to their listing in <a href="The Eighth Mental Measurement Yearbook">The Eighth Mental Measurement Yearbook</a> (Burros, 1978), beginning with literacy and achievement and concluding with specific aptitudes. The few tests included under each heading are the ones most commonly used with many industrially injured workers.

Table 2 contains information on work samples. In selecting work samples for this chart, only work samples designed to be administered independently were selected. Thus, these work samples were not originally designed to be part of a unified evaluation system. The following information is given on each work sample:

## Work Sample:

Name - The name and identification number, if any, as it is listed in the particular work sample manual.

DOT Code - The specific DOT job title and code for each occupation(s) that is closely related to the task contained in each work sample is listed. When tasks relate to a wide variety of occupations, these are indicated by "X's" for the middle three digits and "O's" for the last three digits of the DOT code (e.g., 720.XXX-000). In such cases, the occupational group is the critical factor. Some work samples assess



<sup>\*</sup>Page 163 contains the addresses of all test publishers and work sample developers listed on Tables 1 and 2.

general skills, dexterities, and physical demands that are relevant to numerous occupations; these are designated as "all industries" and are listed separately.

Specific Tasks - This is a brief listing of the major tasks in each work sample and, to some degree, of the specific skills and aptitudes needed to perform these tasks. Because the assessed tasks could relate to job areas and specific skills other than those listed, this task description is the most important selection factor.

Administration - Basic administration considerations are given in the following order: client's physical capacity required for administration (e.g., seated, standing, bending); total administration time (e.g., 1-1/2 to 1-3/4 hours); method of giving instructions to the clients (e.g., oral and demonstration, self-instruction; audiovisual); and scoring (e.g., time and quality). Total administration time includes client orientation, evaluator instruction and demonstration, and the client's time to complete the work sample. It does not include scoring time. The times are based on norms and total administration times in their respective manuals. these are not available, estimated times are used. In conjunction with scoring, the word "norms" is used only when the work sample has empirically or predetermined time standard derived norms. The term "standards" means only that objective scoring material are available.

Source - The manufacturer or the distributor. All work samples on this chart are from four sources: Valpar Component Work Sample Series; Vocational Evaluation System by Singer; Prep, Inc. - Comprehensive Occupational Assessment System, and the MDC Work Sample Manual Clearinghouse. MDC does not sell work sample hardware; each work sample in the Clearinghouse can be reproduced from a standard manual.

The work samples are classified according to the nine Occupational Categories as listed in the DOT. An additional category of "All Occupations" was added to include work samples that evaluated aptitudes, physical capabilities and dexterities that are common to many occupations.

In addition to or instead of the work samples listed on Table 2, the evaluator may choose to use an entire work evaluation battery. If a general assessment of most major occupational aptitudes is needed in a short time, the Career Evaluation System (i.e., Hester) and the System for Assessment and Group Evaluation (SAGE) could be used. Both of the systems can be administered in less than five hours and both result in a computer-generated job list based on the DOT (Botterbusch, 1982). Finally, the Micro-TOWER would provide an in-depth assessment of vocationally relevant aptitudes.

| Name                                       | Scores  | Norm Groups   | Administration   | Publisher                    |
|--|---|---|--|------------------------------|
| Adult Basic Learning<br>Examination (ABLE) | 6th grade-equivalent-<br>verbal (vocabulary,<br>reading, spelling) and<br>arithmetic (computation,<br>problem solving and<br>total) | students, job corp<br>trainees and adults<br>enrolled in basic<br>education programs              | group; Levels I and II -<br>2 hours<br>Level III - over 3 hours;<br>hand or machine scored | Psychological<br>Corporation |
| Nelson-Denny Reading<br>Test               | 4 percentile, grade-<br>equivalent and standard<br>scores - vocabulary,<br>comprehension, total<br>and reading rate                 | 15,000 high school<br>students; college<br>and adult  | group; 35 minutes;<br>separate answer sheet;<br>hand or machine scored                     | Houghton<br>Mifflin          |
| Wide Range Achievement<br>Test (WRAT)      | 3 percentile, grade-<br>equivalent or standard<br>scores - spelling,<br>arithmetic and reading                                      | By age groups from<br>age 5 to 64. Sample<br>sizes for adults<br>N = 400. No national<br>samples. | group, 30 minutes;<br>record answers in book;<br>hand scored                               | Jastak Asso-<br>ciates, Inc. |

| Name  | Scores   | Norm Groups   | Administration   | Publisher  |
|---|--|---|--|--|
| AAMD-Becker Reading-<br>Free Vocational<br>Interest Inventory | T scores & percentiles; separate male and female scores on specific occupational areas, e.g., animal care, food service, light industrial        | EMR males & females                                       | group or individual; 45 minutes; picture content; no reading; hand scored; disposable booklet; no reading required                 | American<br>Association<br>of Mental<br>Deficiency |
| Minnesota Importance<br>Questionnaire (MIQ)                   | Degree of importance of 20 need areas, e.g., advancement, authority, co-workers, social status   | 5,000 employed<br>persons                                 | group or individual; 40 minutes; separate answer sheet; reuseable booklets; machine scoring; recom- mended 6th grade reading level | Vocational<br>Psychology<br>Research               |
| Strong-Campbell<br>Interest Inventory<br>(SCII)               | Several types of scores:<br>6 general themes; 23<br>basic interest scales;<br>124 occupational scales;<br>9 special indexes                      | separate occupa-<br>tional group for<br>each scale        | group or individual; 30<br>minutes; items printed on<br>answer sheet; computer<br>scored; 8th grade reading<br>level               | Standford<br>University<br>Press                   |
| Wide Range Interest-<br>Opinion Test<br>(WRIOT)               | T scores; 18 clusters of occupations, e.g., scales; social service; machine operation; 7 vocational attitudes, e.g., ambition, risk; skill level | adults, high school<br>students; no na-<br>tional samples | group or individual; 40-60 minutes; all content pictures; separate answer sheet. No reading required. Hand or machine scored.      | Jastak Asso-<br>ciates, Inc.                       |



| Name  | Scores  | Norm Groups  | Administration  | Publisher                           |
|---|---|--|---|-------------------------------------|
| Differential Aptitude<br>Test (DAT)                       | Percentiles & stanines: 9 aptitude scores - verbal reasoning, numerical ability, abstract reasoning, clerical, mechanical reasoning, space re- lations, spelling, language usage, and general mental ability            | 63,000 high school<br>students                                   | group; 4 hours, separate<br>answer sheet; reuseable<br>books; hand or machine<br>scored; 6th grade reading                          | Psychological<br>Corporation        |
| General Aptitude Test<br>Battery (GATB)                   | Standard scores: 9 aptitude scores - G-genera! learning ability; V-verbal; N- numerical; S-spatial perception; P-form per- ception; Q-clerical perception; K-motor coordination; F-finger dexterity; M-manual dexterity | 4,000 workers; high school students                              | group; includes apparatus;<br>2½ hours; separate answer<br>sheets; reuseable books;<br>hand or machine scored;<br>6th grade reading | U.S. Employment<br>Service          |
| Revised Beta Exami-<br>nation (second<br>edition) Beta II | Single non-verbal in-<br>telligence score -<br>presented as IQ or<br>percentile   | 1,050 adults,<br>nationwide                                      | group or individual; 30<br>minutes; expendible test<br>booklets; hand scored;<br>no reading required                                | Psychological<br>Corporation        |
| SRA Pictorial<br>Reasoning Test<br>(PRT)                  | Single percentile for general intelligence; designed to be culturally fair  | high school; em-<br>ployed worker norms;<br>separate occupations | group; 25 minutes; self-<br>scoring booklet;<br>no reading required   | Science Re-<br>search<br>Associates |

| Name   | Aptitude/Scores   | Norm Groups   | Administration   | Publisher                           |
|--|---|---|--|-------------------------------------|
| Clerical General Clerical Test (GCT)                       | Percentiles; 4 scores: clerical speed and accuracy; numerical ability; verbal fa- cility; and total   | high school, job<br>applicants and em-<br>ployed workers          | group; 55 minutes; answers<br>marked in test booklet;<br>hand scored | Psychological<br>Corporation        |
| Minnesota Clerical<br>Test (MCT)                           | Percentiles - 2 scores: number comparison and name comparison. Ability to rapidly per- ceive and differentiate between numbers, letters and other sym- bols | high school students,<br>employed workers                         | group; 20 minutes; answers<br>marked in booklets; hand<br>scored     | Psychological<br>Corporation        |
| SRA Typing Skills  | Percentiles - 2 scores:<br>net speed and accuracy   | job applicants  | group or individual; 15<br>minutes; hand scored                      | Science Re-<br>search<br>Associates |
| <u>Dexterity</u><br>Crawford Small Parts<br>Dexterity Test | Fine eye-hand coordi-<br>nation; finger dex-<br>terity. Two percentile<br>scores: pins and<br>collars; screws   | job applicants; high<br>school students, em-<br>ployed assemblers | individually; apparatus<br>seated; 20 minutes<br>time to completion  | Psychological<br>Corporation        |

| Na. me  | Aptitude /Scores   | No rm Groups   | Administration  | Publisher                           |  |
|---|--|--|---|-------------------------------------|--|
| Hand-Tool Dexterity<br>Test   | Ability to use ordinary mechanics' hand tools; a single percentile. score; manual dexterity  | job applicants, employed workers, appren tices                             | individually; apparatus;<br>standing; 20 minutes<br>time to completion  | Psychological<br>Corporation        |  |
| Purdue Pegboard  Finger dexterity manual dexterity hand coordi mation percentile scores right hand; left both hands; right left plus both ha and assembly |  | employ∈d workers;<br>general populations                                   | group; apparatus; seated;<br>10 minutes; number placed<br>in time line  | Science Re-<br>search<br>Associates |  |
| Mechanical Bennett Mec hanical Comprehen ≤ ion Test   | Understand relationship of physical forces and mechanical elements in practical s ituations. A single percentile score on mechanical comprehension | job applicants, em-<br>ployed workers,<br>students                         | group; 30 minutes; sep-<br>arate answer sheet; hand<br>or machine scored; 8th<br>grade reading                            | Psychological<br>Corporation        |  |
| The Revised Minnesota Paper Form Board Test   | Spatial apt itude; non- verbal estimate of intellectua ifunction- ing; "mechanical orientation = " A sin- gle percent ile score                    | high school students;<br>applicants and em-<br>ployed workers,<br>military | group; 20 minutes; ex-<br>pendable booklet or<br>separate answer sheet;<br>hand or machine scored;<br>no reading required | Psychological<br>Corporation .      |  |

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| Name                             | DOT Codes   | Specific Tasks   | Administration   | Source     |
|----------------------------------|---|--|--|------------|
| Drafting (#1)                    | Drafter, Architectural<br>001.261-010<br>Drafter, Civil<br>005.281-010  | correct use of drafting tools,<br>constructing line drawings, con-<br>structing a floor plan, and<br>measuring and layout  | seated; 1½ hours<br>audiovisual<br>client self-report<br>quality rating                      | Prep/COATS |
| Drafting (#16)                   | Various Drafters,<br>such as:<br>Drafter, Civil<br>005.281-010<br>Drafter, Tool Design<br>007.261-022             | blueprint reading, perception, measurements, three dimensional visualization, drawing ability  | seated; 1½ to 2 hours<br>reading required<br>separate answer sheets<br>time and error scores | Valpar     |
| Drafting                         | Drafter, Apprentice<br>017.281-014  | task common to many drafting jobs: use of templates, triangles, draw cut block, change scale   | seated; 2½ to 3 hours<br>audiovisual<br>time and error score                                 | Singer     |
| Computer Tech-<br>nology (#25)   | Programmer, Business 020.162-614 Programmer, Engineering and Scientific 020.167-022 Terminal Operator 203.582-054 | with an Apple II computer and disk drive: starting the computer, using special purpose keys and computer commands, entering data records, working with variables, writing a computer program, making format changes to a program | seated; 2½ hours<br>audiovisual<br>client self-rating<br>quality rating                      | Prep/COATS |
| Extraction Technology (#20)  153 | Laboratory Assistant 024.381-010 Chemical-Laboratory Technician 022.261-010 Laboratory Tester 029.261-010         | prepare standard solutions, per-<br>form chemical analysis and<br>laboratory tests, use routine<br>laboratory equipment, processing<br>and recording data  | seated; 1-3/4 hours<br>audiovisual<br>client self-rating<br>quality rating                   | Prep/COATS |

| Name  | DO™ Codes   | Specific Tasks  | Administration   | Source     |
|---|---|---|--|------------|
| Soil Testing                                    | Laboratory Tester<br>029.26 1-010   | the pH of soil is tested using a color chart and a pH meter. Other tests are performed  | seated; 1 to 1½ hours<br>audiovisual; writing<br>time and error scores     | Singer     |
| Grimes Pharmacy<br>Helper Work<br>Sample (#104) | Pharmacy H∈1per<br>074.38⊅-010  | Assesses ability to use medical terminology, transcribe information, and accurately fill prescriptions  | seated; estimate 1½ hours self-instruction quality standards               | MDC        |
| Nutri tion (#17)                                | Dietitic,国echnician<br>077.12国-010<br>Dietitian, Clinical<br>077.12 <b>—</b> -014 | planning meals to meet nutri-<br>tional requirements, documenting<br>nutritional decisions, planning<br>institutional meals, gathering<br>and recording patient information | seated; 1½ hours<br>audiovisual<br>client self-rating<br>quality rating    | Prep/COATS |
| Medical Services<br>(#7)                        | Dental Hyg臺 enist<br>078.36壓 -010<br>Medical Te⊂hnologist<br>078.36重 -014         | taking and recording vital signs, bandaging a client's arm, recording medical history, recording liquid intake and output, performing and recording urinalysis              | seated; 1½ hours<br>audiovisual<br>client self-report<br>quality rating    | Prep/COATS |
| Commercial Art<br>(#16)                         | Art Director 141.031 -010 Illustrator 141.061 -022                                | drawing geometric shapes and designs, cutting out shapes, using color and design elements, pasting up figures or shapes, transferring letters and figures                   | seated; 2-3/4 hours<br>audiovisual<br>client self-rating<br>quality rating | Prep/COATS |
| Multi-level<br>Sorting (#7)                     | Photographe rs<br>143.XXX -000<br>Tester<br>029.261 -022                          | make decisions while performing work tasks requiring visual discrimination of colors, colornumbers, color letter and a combination color-letter-number                      | seated; 15-20 minutes<br>oral/demonstration<br>time and error scores       | Valpar     |



| Name                                      | DOT C: odes   | Specific Tasks | Administration  | Source |
|---|---|----------------|---|--------|
| Radio Announcing<br>Work Sample<br>(#103) | Amouncer<br>159.147-+ 010<br>Disk Jockey<br>159.147-# 014 | 1              | seated; 1 hour<br>self-instruction<br>time and quality<br>ratings | MDC    |

## 2 - Clerical and Sales Occupati⊷ons

| Name   | DOT C∞odes  | Specific Tasks  | Administration   | Source     |
|--|---|---|--|------------|
| Clerical Com-<br>prehension and<br>Aptitude (#5) | Stenography, Typing,<br>Filing and Related<br>201.XXX- <b>©</b> 000 to<br>209.XXX- <b>©</b> 000 | 3 separate sections: general clerical, bookkeeping and typing. Scores on: telephone answering, mail sorting, filing, bookkeeping, typing  | seated; 2 to 3 hours<br>oral/demonstration/<br>reading instructions<br>time and error scores | Valpar     |
| Typist Work<br>Sample (#206)                     | Typist<br>203.582- <b>○</b> 66  | assesses speed and accuracy in typing statistical information, final report, and final letters from a handwritten copy and a rough draft  | seated; estimate 3/4 hour oral, written and typed copy, words per minute                     | MDC        |
| Clerical/<br>Office (#2)                         | File Clerk, ☐<br>206.362-☐10<br>Clerk, Gener☐1<br>209.562-☐10<br>Receptionist<br>237.367-☐38    | several general clerical tasks: making appointment calendar, memo from a phone call, typing, filing, lists and prepares letters for mailing, adding and preparing itemized bills, and | seated; 1-3/4 hours<br>audiovisual<br>client self-report<br>quality rating                   | Prep/COATS |
| 157  |   | collating   |  | 1          |

| lane  | DOT Wes   | Specific Tasks  | Administration   | Source     |
|---|---|---|--|------------|
| Numerical Sorting *(#3)                               | File Clerks 206.XXXW Production wStock Clerks 224.XXXW  | sorting by number sequence, some visual perception  | seated; 15 minutes<br>oral/demonstration<br>instruction<br>time and error scores                       | Valpar     |
| Mail Sorting and Postal Calulation Work Sample (#214) | Mail Clerk 209.687-16 Post Office Nerk 243.367-114 Mail Handler 209.687-114                                 | assesses the ability to sort mail alphabetically, weigh mail, classify mail by weight, and to calculate postage   | standing/reaching<br>estimated 2 hours<br>oral/demonstration<br>written responses<br>quality standards | MDC        |
| Book keepin   | Bookkeeper   210.38z-N4 Bookkeeper    210.38z-N6 Audit Clerk 210.38z-N0 General-ledgy Bookkeeper 210.38z-N6 | preparing forms and records, operating adding, accounting, or calculating machines, checking reviewing source documents and records, recording information into journals or ledgers | seated; 2½ hours<br>audiovisual<br>client self-rating<br>quality rating                                | Prep/COATS |
| Bank leller— Work Samp le (#211)                      | Teller<br>211.362-08<br>Money Counter<br>211.467-04   | ability to learn to apply book-<br>keeping procedures, attention to<br>detail in exchanging money, and<br>ability to record transactions<br>accurately                              | seated; estimate 1½ hours self-instruction manual written responses quality standards                  | MDC        |

| Name   | DOT Codes   | Specific Tasks   | Administration  | Source     |
|--|---|--|---|------------|
| Sales (#4)   | Cashier I 211.362-010 Sales Clerk 290.477-014 Salesperson, General Merchandise 279.357-054            | stampi ng costs, recording food and beverage orders, setting up a cash drawer and making change, recording credit card purchases, and fi ling  | seated; 1-3/4 hours<br>audiovisml<br>client self-report<br>quality mating             | Prep/COATS |
| Money Handling<br>(#13)                              | Cashier II 211.462-010 Cashier-Checker 211.462-014 Toll Collector 211.462-038 Sales Clerk 290.477-014 | 3 sections: money recognition, change making, consumer economies   | seated; 60-70 minutes<br>reading of multiple<br>choice items<br>separate answer sheet | Valpar     |
| Money Handling<br>Assessment<br>Sample (#203)        | Toll-Collector<br>211.462-038   | assess es the ability to do basic arithmetic, make change, and recogn ize different money denomize nations   | seated orstanding;<br>estimate 1/2 hour<br>self-administered<br>quality standards     | MDC        |
| Gilbertson Basic Account- ing Work Sample (#208)     | Accounting Clerk<br>216.482-010   | assess—es the ability to read and unders—tand accounting terminology, two record transactions in a basic accounting format and to comple—te a trial balance from the in—formation provided | seated; estimate<br>1-3/4 hours<br>self-instruction manual<br>quality standards       | MDC        |
| McNallie Desk<br>Calculator<br>Work Sample<br>(#207) | Calculating-<br>Machine Operator<br>216.482-022<br>Adding Machine<br>216.482-014                      | assesses the ability to read required mathematical operations, compute answers by using a desk calculator, and record the results  | seated; estimate 1/2 hour self-instruction quality standards                          | MDC 16     |



| Name  | DOT Codes  | Specific Tasks   | Administration   | Source     |
|---|--|--|--|------------|
| Data Calculation<br>& Recording                                       | Calculating Machine<br>Operator<br>216.482-022                             | operates an electronic calculator to: complete a weekly payroll, total columns, and reconcile a quarterly report   | seated; 2 to 4 hours<br>audiovisual, writing<br>time and error scores                            | Singer     |
| Real Estate<br>(#22)  | Real Estate Clerk<br>219.362-046<br>Guide, Real Estate<br>297.667-010      | performing clerical office<br>duties, handling information,<br>contracts and mortgage payment<br>books, performing computations  | seated; 1½ hours<br>audiovisual<br>client self-rating<br>quality rating                          | Prep/COATS |
| Filing, Shipping<br>& Receiving                                       | Shipping and Receiving<br>Clerk<br>222.387-050                             | several tasks: file by letters and numbers, compare purchase orders and packing slips, complete receiving records, weigh, measure, and determine postage for five packages, file purchase orders | standing/seated<br>1½ to 2½ hours<br>audiovisual<br>time and error scores                        | Singer     |
| Shipping and Re-<br>ceiving Freight<br>Handling Work<br>Sample (#201) | Retail Receiving Clerk<br>222.387-050<br>Distribution Clerk<br>222.587-018 | assesses the ability to route packages and mail for shipment by zone, weight, class and scale numbers and determine costs of shipment by utilizing postage charts                                | seated; 1 hour<br>oral/demonstration<br>quality standards  | MDC        |
| Johnson Shipping<br>Clerk Job<br>Sample (#205)                        | Shipping Clerk<br>222.387-050  | assesses the ability to locate parcels for shipping from order list, pack them in appropriate cartons securely, and apply shipping labels  | stand, lift/carry,<br>stoop, kneel<br>estimate 1 hour<br>oral/demonstration<br>quality standards | MDC        |



| Name   | DOT Codes   | Specific Tasks  | Administration   | Source     |
|--|---|---|--|------------|
| Order Picking<br>Work Sample<br>(#204)                 | Distributing Clerk<br>222.587-018   | assesses the ability to prepare<br>an order for shipment. Requires<br>the ability to count and compare<br>items listed on the order sheet<br>against the order, handle office<br>supplies and place them in a<br>designated container | stand, reach; estimate<br>1 hour<br>oral/demonstration<br>quality standards  | MDC        |
| Travel Services<br>(#8)                                | Ticket Agent<br>238.367-026<br>Reservations Agent<br>238.367-018                      | filling in a sales memo, filling in an airline ticket form, completing a universal credit change form, preparing an itinerary, calculating costs, tax and commission  | seated; 1½ hours<br>audiovisual<br>client self-report<br>quality rating  | Prep/COATS |
| Rasmussen Bus<br>Ticket Agent<br>Work Sample<br>(#213) | Ticket Agent<br>238.367-026   | assesses the ability to follow a<br>self-instruction manual and<br>ability to plan schedules for<br>customers according to their<br>needs   | seated; 3 hours<br>self-instruction<br>manual<br>written responses<br>time and quality norms                               | MDC        |
| Travel Counselor<br>Work Sample<br>(#212)              | Travel Agent<br>252.157-010   | assesses the ability to arrange complete vacations including transportation and accommodations, understand oral instructions, use tour guides and airline directories, and ability to perform clerical operations                     | seated; estimate<br>2½ hours<br>orally, written<br>responses<br>time and quality<br>standards                              | MDC        |
| Hook Parts Salesperson Work Sample (#210)              | Salesperson Parts<br>279.357-062<br>Salesperson General<br>Merchandise<br>279.357-054 | assesses the ability to work with mock customers face to face, make change, operate a calculator, stock shelves, use a catalog and record informa- tion accurately  | stand, stoop, bend,<br>reach; 2 hours<br>self-instruction<br>manual<br>role-playing<br>written orders<br>quality standards | MDC 160    |

| Name  | DOT Codes   | Specific Tasks   | Administration  | Source |
|---|---|--|---|--------|
| Sales Processing                              | Sales Clerk<br>290.477-014<br>Salesperson, General<br>Merchandise<br>279.357-054                          | 3 separate tasks: complete change-card form, take a tele-phone order for merchandise, and compute shipping and sales tax on ordered items  | seated; 1½ to 2 hours audiovisual time and error scores                                 | Singer |
| Thompson Tele-<br>phone Work<br>Sample (#209) | Telephone Solicitor<br>299.357-014<br>Membership Solicitor<br>293.357-022<br>Traffic Agent<br>252.257-018 | assesses the ability to perform interviewing, sales, and customer service work over the telephone. Ability to accurately record and compute data in a standardized form is also assessed | seated; estimate 1 hour<br>self-instruction manual<br>role-playing<br>quality standards | MDC    |

# 3 - Service Occupations

| Name                     | DOT Codes   | Specific Tasks   | Administration  | Source     |
|--------------------------|---|--|---|------------|
| Food Preparation<br>(#6) | Cook, Pastry<br>313.381-026<br>Cook<br>313.361-014<br>Kitchen Helper<br>318.687-010 | measuring dry ingredients and baking a cake, making coffee, calculating recipe increases, making frosting, and preparing ingredients as per recipe | standing/seated; 3½ hours audiovisual client self-report quality rating | Prep/COATS |
| Cooking &<br>Baking      | Cook<br>313.361-014   | bakes a shortcake using a micro-<br>wave oven: knead and shape<br>dough, operate oven, apply top-<br>ping to dessert                               | seated/standing; 1½ to 2 hours audiovisual time and error scores        | Singer     |



| Name                              | DOT Codes  | Specific Tasks   | Administration   | Source     |
|-----------------------------------|--|--|--|------------|
| Barbering/<br>Cosmetology<br>(#9) | Barber<br>330.371-010<br>Cosmetologist<br>332.271-010<br>Hair Stylist<br>332.271-018                     | giving a basic haircut, perform-<br>ing a dry shampoo, measuring<br>head for fitting a wig, cleaning<br>wig, sales   | standing/bending;<br>1-3/4 hours<br>audiovisual<br>client self-rating<br>quality rating        | Prep/COATS |
| Cosmetology                       | Cosmetologist<br>332.271-010   | using a mannequin to: cut hair,<br>curl hair, shampoo, comb dry<br>and style hair  | standing/bending<br>2 hours<br>audiovisual<br>time and error scores                            | Singer     |
| Medical Service                   | Nurse Aide<br>355.674-014<br>Orderly<br>355.674-018  | 4 tasks: place elastic bandage on artifical arm, take temperature, pulse and respiration rates, records liquid intake/output, makes tests for "diabetic urine"   | seated; 1½ to 2 hours<br>audiovisual<br>writing<br>time and error scores                       | Singer     |
| Clothing &<br>Textiles<br>(#21)   | Presser, Hand 363.684-018 Marker I 781.384-014 Sewing Machine Operator, Regular Equipment (Master Title) | marking, cutting, operating a sewing machine, sewing with machine, pressing, inspecting  | seated, standing,<br>reaching; 2½ hours<br>audiovisual<br>client self-rating<br>quality rating | Prep/COATS |
| Fire Science<br>(#19)             | Fire Fighter 373.364-010 Fire Captain 373.134-010 Fire Marshal 373.167-018                               | desk duties, testing and main-<br>taining equipment, advising on<br>fire prevention and false<br>alarms, assessing fire scenes<br>and aiding victims, routing and<br>positioning apparatus at fire<br>scene, using special equipment | seated; 45 minutes   | Prep/COATS |
| ERIC.                             |  | to extinguish or reduce fires  |  | <u></u>    |

| Name  | DOT Codes  | Specific Tasks   | oNy  inistration  | Source     |
|---|--|--|---|------------|
| Police<br>Science (#13)                                     | Police Officer<br>375.263-014<br>State Highway Police<br>Officer<br>375.263-018<br>Desk Officer<br>375.137-014 | obtaining and using information, performing patrol activities, developing and maintaining community relations, performing traffic duties, searching and seizing evidence, arresting suspects | seatel:1: 24 hours  audioviribual   client: belf-rating   quality: rating   | Prep/COATS |
| Roundtree Police<br>Radio Operator<br>Work Sample<br>(#301) | Radio Dispatcher<br>379.362-010<br>Water Service<br>Dispatcher<br>954.367-010                                  | assesses the ability to work as a police radio dispatcher. Involves recording and transmitting information accurately, operating recording equipment and reading a map and code sheets       | seated; 2 hours audio-th/Pe self-hong-truction manual quality(y) s tandards | MDC        |

4 - Agricultural, Fishery, Forestry and Related Occupations

| Name  | DOT Codes   | Specific Tasks                 | /dbd//inistration   | Source |
|---|-------------|--------------------------------|---|--------|
| Mikelson-Rossi<br>Potting Work<br>Sample (#402) | 405.684-014 | pots with soil. Judgment as to | standin my/bending/reaching<br>15 minu ukes<br>oral/deisy0nstration<br>time an my quality norms | MDC    |



#### 5 - Processing Occupations

| Name                              | DOT Codes  | Specific Tasks   | Administration  | Source |
|-----------------------------------|--|--|---|--------|
| Production Ma-<br>chine Operating | Injection-Molding<br>Machine Operator<br>556.382-014 | tasks related to machine tending: mixing colors with plastics, set up injection molding machine, "production-run," and purge machine | standing; 1½ to 2 hours<br>audiovisual<br>time and error scores | Singer |

#### 6 - Machine Trades Occupations

| Name                                  | COT Codes   | Specific Tasks   | Administration   | Source |
|---------------------------------------|---|--|--|--------|
| Tri-level<br>_ Measurement<br>B (#10) | Machinist 600.280-022 Machine Set-Up Operator 600.380-018 Inspector, Tool 601.281-022 - other precise in- spections | crude to fine inspection and measurement in the machine trades, visual and instrument use                                  | seated; 30-35 minutes<br>oral/demonstration<br>time and error scores                   | Valpar |
| Electric Foot<br>Stapler<br>Operator  | Punch Press Operator II<br>615.685-030<br>Power Press Tender<br>617.685-026   | assesses interest and ability<br>to do routine work related to<br>machine tending. Industrial<br>production norms provided | standing/reach; estimate<br>1 hour<br>oral/demonstration<br>learning curve             | MDC    |
| Small Tools (Mechanical) (#1)         | Mechanical Repair<br>620.XXX-000 to<br>630.XXX-000<br>- some structural work  | ability to work with small tools,<br>use hands and tools in small,<br>difficult places                                     | standing/seated; 1 hour<br>oral/demonstration<br>instructions<br>time and error scores | Valpar |



| Name  | DOT Codes  | Specific Tasks   | Administration  | Source ·   |
|---|--|--|---|------------|
| Automotive (#15)  | Automobile Mechanic<br>620.261-010<br>Automobile-Mechanic<br>Apprentice<br>620.261-012<br>Automobile-Mechanic<br>Helper<br>620.684-014 | using reference materials, as-<br>sembly/disassembly parts, repair-<br>ing parts-battery connector and<br>brake cylinder, tail light | seated; 1½ hours audiovisual client self-rating quality rating                        | Prep/COATS |
| Minor Tune-Up<br>Work Sample<br>(#605)                        | Automobile Mechanic<br>620.261-010<br>Motorboat Mechanic<br>Helper<br>623.684-010  | assesses the ability to perform<br>a minor tune-up on a simulated<br>ignition system   | seated; estimate 1½<br>hours<br>self-instruction manual<br>quality standards          | MDC        |
| Russo Carburetor Disassembly- Assembly Work Sample (#606)     | Automobile Mechanic<br>620.261-010<br>Motorcycle Repairman<br>620.281-054<br>Small Engine Mechanic<br>625.281-034                      | assesses the ability to dis-<br>assemble and assemble a<br>carburetor according to a<br>written manual                               | seated; estimate 2 hours<br>self-instruction manual<br>time and quality<br>standards  | MDC        |
| Radiator Flushing<br>and Winterizing<br>Work Sample<br>(#607) | Automobile-Radiator<br>Mechanic<br>620.381-010<br>Automobile-Service<br>Mechanic<br>620.261-010  | assesses the ability to correctly flush and winterize a radiator according to a set of specific written and pictorial instructions   | standing/bending<br>estimate 1½ hours<br>self-instruction manual<br>quality standards | MDC        |
| Engine Service  | Small Engine Mechanic<br>625.281-034   | using a 4-cycle lawn mower engine, disassembled and checked; changes oil, adjusts points, and reassembles                            | standing; 2½ to 3 hours<br>audiovisual<br>time and error scores                       | Singer     |
|   | 175  |  | 176   |            |



| Name  | DOT Codes   | Specific Tasks  | Administration  | Source     |
|---|---|---|---|------------|
| Dahl-Holmes Small<br>Engine Work<br>Sample                | Small Engine Mechanic<br>625.281-034  | assesses the ability to disassemble and reassemble a small engine, identify parts and functions, and ability to use hand tools                                    | standing/reaching<br>estimate 2 hours<br>self-instruction manual<br>test; quality standards | MDC        |
| Small Engines<br>(#10)                                    | Small Engine Mechanic<br>625.281-034<br>Power-Saw Mechanic<br>625.281-030<br>Outboard Motor Mechanic<br>623.281-042 | perform the following tasks with a small engine: change oil, air cleaner maintenance, testing electrical system, spark plug maintenance, perform compression test | standing/seated; 1½ hours audiovisual client self-rating quality rating                     | Prep/CCATS |
| Refrigeration &<br>Air Condition-<br>ing                  | Refrigeration Mechanic<br>637.261-026   | 4 separate tasks: measure, cut and bend copper tubing, sweat solder tubing and fittings, pressure fixture and check for leaks, repair single electrical circuits  | seated/standing; 1½ to 3<br>hours<br>audiovisual<br>time and error scores                   | Singer     |
| Refrigeration<br>(#24)                                    | Refrigeration Mechanic<br>637.261-026<br>Refrigeration Mechanic<br>Helper<br>637.687-014                            | testing mechanical components,  | seated/standing;<br>2-3/4 hours<br>audiovisual<br>client self-rating<br>quality rating      | Prep/COATS |
| Spielman Bicycle<br>Wheel Truing<br>Work Sample<br>(#603) | Bicycle Repairer<br>639.681-010   | wheel, use of hand tools, following specific directions,  | standing/reaching<br>estimate 1 hour<br>self-instruction manual<br>quality standards        | MDC        |

| Name  | DOT Codes   | Specific Tasks  | Administration   | Source |
|---|---|---|--|--------|
| Soldering & In-<br>spection<br>(Electronics)<br>(#12)   | Solderer (Jewelry) 700.381-050 Solderer, Torch I & II 813.684-026 813.684-010 -many electrical and electronic bench as- sembly occupations                  | graduated difficulty levels of<br>basic soldering skills  | seated; 20-25 minutes<br>oral/demonstration<br>time and error scores   | Valpar |
| Sample Making   | Metal Finisher<br>705.684-034   | use of hand tools, measuring,<br>design   | seated/standing;<br>2-3 hours<br>audiovisual<br>time and error scores  | Singer |
| Simulated Assembly (#8)                                 | Many Benchwork Occupations, especially electric equipment (720.XXX-000 to 729.XXX-000) and products made from assorted materials 730.XXX-000 to 739.XXX-000 | bench assembly tasks - repet-<br>itive bilateral use of upper<br>extremities  | seated or standing;<br>25 minutes<br>oral/demonstration<br>assembly speed controlled<br>by evaluator. Number of<br>correct assemblies in 20<br>minutes | Valpar |
| Electrical Cir-<br>cuitry and<br>Print Reading<br>(#15) | Television and Radio Repairer 720.281-018 Final Tester 721.261-014 Electrical Inspector 825.381-026   | ability to understand and apply the principles and functions of electrical circuits. Three sections: circuit continuity, circuit testing, and circuit application | seated; 50-60 minutes<br>oral/demonstration<br>answer sheet<br>time and error scores   | Valpar |

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| Name   | DOT Codes  | Specific Tasks   | Administration  | Source     |
|--|--|--|---|------------|
| O'Rourke Small<br>Appliance Repair<br>Work Sample<br>(#715)                          | Electrical Appliance<br>Repairer<br>723.382-010  | assesses the ability to trouble-<br>shoot defective appliances,<br>make appropriate repairs, and<br>record information accurately                          | seated; estimate 1 hour<br>oral<br>quality standards  | MDC        |
| Electronics<br>Assembly  | Electronics Assembler<br>726.684-018   | lay out and assemble a printed circuit board, soldering components, and wiring harness   | seated; 2-3 hours<br>audiovisual<br>time and error scores   | Singer     |
| Strand Resistor<br>Inspecting and<br>Testing (#708)                                  | Electronics Tester II<br>726.684-026   | assesses the ability to inspect,<br>determine values of, accept, or<br>reject resistors based on test-<br>ing and accuracy of calculation                  | seated; estimate 2 hours<br>self-instruction<br>client records answers<br>time and quality stan-<br>dards | MDC        |
| ΣElectronics<br>(#14)  | Electronics Worker 726.687-010 Electronics Tester II 726.684-026 Electronics Assembler 726.684-018 | common electronics tasks: stuffing components into a circuit board, assembling a wire harness, testing for con- tinuity, testing with voltage, hand wiring | seated; 3½ hours<br>audiovisual<br>client self-rating<br>quality rating                                   | Prep/COATS |
| Giese Electrical<br>Wiring Work<br>Sample  | Appliance Repairer<br>723.584-010<br>Assembler I<br>(elec. equip.)<br>729.687-010                  | asseses the ability to use hand<br>tools to wive three-way wall<br>switches according to a wiring<br>diagram   | seated; estimate<br>40 minutes<br>oral/demonstration<br>time and quality stan-<br>dards                   | MDC        |
| Revised Tomcheck/<br>Brown Eye-<br>Hand-Foot Co-<br>ordination Work<br>Sample (#713) | Coil Winder<br>724.684-026<br>Rasper<br>788.684-094  | assesses the ability to repeti-<br>tively assemble an aluminum<br>block to a nut and bolt using<br>a power screwdriver controlled<br>by a foot pedal       | seated; estimate 1 hour oral/demonstration quality standards  | MDC 182    |



| Name   | DOT Codes   | Specific Tasks   | Administration   | Source |
|--|---|--|--|--------|
| Wire Harness<br>Assembly Work<br>Sample (#710) | Cable Maker<br>728.684-010  | subcontract work sample. Assesses the ability to assemble seven different colored wires into a bundle or harness, according to a prescribed plan | seated; estimate 1 hour oral/demonstration time and quality standards                                    | MDC    |
| Stout U-Bolt<br>Assembly Work<br>Sample (#705) | Assembler (Ammunition) 737.687-010 Assembler (Pen & Pencil) 733.685-010 Assembler, Toy Voices (Toys & Games) 731.687-034 Dial Brusher (Watch & Clock) 715.687-022 | assesses the ability to assemble 200 U-bolts units using U-bolts, nuts, straps, and ferrules in four, 50 unit trials                             | seated/reaching; 2 to 3<br>hours<br>oral/demonstration<br>time and quality norms                         | MDC    |
| Bench Assembly                                 | Assembler, Oil Filters<br>739.687-026<br>Assembler, Small<br>Products<br>739.687-030  | bench assembly work activities. Repetitive use of hand tools: nut drivers, screwdrivers, and wrenches  | seated; 2 to 2½ hours audiovisual time and error scores  | Singer |
| Pioneer Pen<br>Assembly Job<br>Sample (#714)   | Assembler, Small<br>Products<br>739.687-030   | subcontract work sample. Assesses the ability to perform a multiple step small parts assembly  | seated; 80 minutes<br>oral/demonstration<br>time and quality norms                                       | MDC    |
| Tire Balancing<br>Work Sample<br>(#716)        | Tire Balancer<br>750.687-014  | verbal instructions, use a balancer and read bubble guage, and apply appropriate weights   | standing, stooping,<br>kneeling, reaching<br>estimate 2 hours<br>oral/demonstration<br>quality standards | MDC    |

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| Name                                      | DOT Codes                           | Specific Tasks  | Administration  | Source  |
|---|-------------------------------------|---|---|---------|
| Wood Working                              | Case Fitter<br>763.684-026          | construct a small shelf: measure,<br>cut, miter box, router, drill,<br>nail and screw shelf; stain - use<br>of hand and power wood working<br>tools                             | standing/seated;<br>2½ to 4½ hours<br>audiovisual<br>time and errorscores                   | S∶inger |
| Hurley Upholstery<br>Job Sample<br>(#707) | Upholsterer, Outside<br>780.684-118 | subcontract work sample. As-<br>sesses the ability to assemble<br>and staple a fitted polyethylene<br>sheet and foam rubber to a ply-<br>wood board to make boat bench<br>seats | seated/standing/ estimate<br>30 minutes<br>oral/demonstration<br>time and quality standards | -       |

### 8 - Structural Work Occupations

| Name                         | DOT Codes   | Specific Tasks   | Administration   | Source          |
|------------------------------|---|--|--|-----------------|
| Sheet Metal                  | Sheet Metal Worker<br>804.281-010   | construct a utility box: Lay out sheet metal, mark, scribe and cut, punch holes, bend metal in break, pop rivet together | standing/pushing<br>2 to 4 hours<br>audiovisual<br>time and error scores       | S <b>a</b> nger |
| Metal Construc-<br>tion (#3) | Sheet Metal Worker<br>804.281-010<br>Metal-Fabricating-<br>Shop Helper<br>619.686-022 | measuring, scribing, cutting, bending and soldering sheet metal, cutting and soldering pipe                              | seated/standing/bending 2½ hours audiovisual client self-report quality rating | Prep/COATS      |



|     | Name  | DOT Codes  | Specific Tasks   | Administration   | Source     |
|-----|---|--|--|--|------------|
|     | Schneck Arc<br>Welding Work<br>Sample (#804)                  | Welder, Arc<br>810.384-010   | assesses the ability to arc weld<br>by passing a safety test, strik-<br>ing a bead ten times, running<br>and cleaning a bead ten times,<br>tacking, butt welding two metal<br>plates, and fillet welding two<br>metal plates by using an arc<br>welder, steel plates, electrodes,<br>chipping hammer, wire brush, and<br>protective welding clothing | standing; estimate 2½ hours audiovisual self-instruction manual knowledge tests time and quality score | MDC        |
| 157 | Oxy-Acetylene<br>Welding and<br>Cutting Work<br>Sample (#803) | Gas Welder<br>811.684-014  | assesses the ability to safely use welding equipment to weld and cut metal, ability to comprehend written directions and specifications, and ability to learn safety instructions  | standing; e≤ timate<br>2½ hours<br>self-instru⊂tion manual<br>time and quælity scores                  | MDC        |
|     | Welding &<br>Brazing  | Welder, Gas<br>811.684-014   | weld, butt weld and cut  | standing/ber ding; 1½ to 3 hours audiovisual time and error scores                                     | Singer     |
|     | Communication<br>Services (#23)                               | Public Address Servicer<br>823.261-010<br>Station Installer and<br>Repairer<br>822.261-022 | equipment, testing equipment, replacing equipment  | seated/stand ing;<br>2½ hours<br>audiovisual<br>client self- rating<br>quality rati ng                 | Prep/COATS |
|     | McClung House<br>Wiring Work<br>Sample (#805)                 | Electrician<br>824.261-010<br>Electrician Helper<br>829.684-022                            | schematic diagrams and wire  | seated; estimmate<br>l½ hours<br>oral  | MDC        |

| Name   | DOT Codes  | Specific Tasks  | Administration  | Source     |
|--|--|---|---|------------|
| Electrical<br>(#12)                                    | Electrician<br>824.261-010<br>Electrician, Apprentice<br>824.261-014<br>Electrician<br>824.681-010 | using reference resources, running cable and wire, installing boxes and fixtures, stripping and splicing wires, testing circuits  | standing/seated;<br>3-3/4 hours<br>audiovisual<br>client self-rating<br>quality rating          | Prep/COATS |
| Household & In-<br>dustrial<br>Wiring                  | Electrician Helper<br>829.684-022  | 5 tasks: measure and cut electrical cable, run cable, wire light fixture, switch and outlet, inspect installation, and attach 3 prong plug  | standing/bending;<br>2½ to 4 hours<br>audiovisual<br>time and error scores                      | Singer     |
| Electrical<br>Wiring                                   | Cable-Splicer Helper<br>829.667-010  | wiring tasks: splicing wire,<br>solder with gun and iron, tape<br>splices   | seated; 2 to 3½ hours<br>audiovisual<br>time and error scores                                   | Singer     |
| Wood Construc-<br>tion (#5)                            | Carpenter<br>860.381-022<br>Carpenter Apprentice<br>860.381-026                                    | estimating square footage,<br>number of rafters and shingles,<br>measuring and layout, construct-<br>ing wood frames and interior<br>trim   | standing; 2½ hours<br>audiovisual<br>client self-report<br>quality rating                       | Prep/COATS |
| Adams Construc-<br>tion Layout<br>Work Sample<br>(#80) | Carpenter<br>860.381-022<br>Form Builder<br>860.381-046  | assesses the ability to use lay-<br>out tools, follow pictorial and<br>written instructions, measure<br>accurately, follow a prescribed<br>method for "squaring up" a lay-<br>out, and make judgments pertain-<br>ing to tolerance limits | standing/bending/stooping<br>estimate 2 hours<br>self-instruction<br>time and quality standards |            |



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| Name   | DOT Codes   | Specific Tasks  | Administration   | Source     |
|--|---|---|--|------------|
| Masonry (#11)                                  | Brī cklayer<br>861.381-018<br>Brī cklayer, Appren-<br>⊏ice<br>861.381-022<br>Ce⊓≡ent Mason<br>844.364-010 | several construction tasks: measuring and layout, calculat- ing supplies, mixing mortar, breaking bricks, laying mortar and bricks and finishing the wall | standing/seated;<br>3½ hours<br>audiovisual<br>client self-rating<br>quality rating                            | Prep/COATS |
| Masonry  | Bri cklayer Apprentice<br>861.381-022   | separate tasks: mixes mortar,<br>cuts brick, and lays a corner of<br>brick  | standing/bending/lifting<br>1 hour<br>audiovisual<br>time and error scores                                     | Singer     |
| Plumbing Main-<br>tenance Work<br>Sample (#80) | Plumber<br>862.381-030<br>Plumbing Hardware<br>Assembler<br>706.684-086                                   | assesses the physical capacity<br>and tool using ability needed<br>to connect faucets, pipes, and<br>valves and to repair parts of a<br>sink and toilet   | standing/bending/stoop-<br>ing/reaching<br>estimate 2½ hours<br>self-instruction<br>time and quality standards | MDC        |
| Plumbing & Pipe<br>Fitting                     | Plum nber, Apprentice<br>862.381-034  | measure, mark, cut and thread galvanized and plastic pipe, assemble piping in vanity, install P-trap and faucets in sink, repair faucet                   | standing/kneeling/re-<br>clining; 2½ to 4 hours<br>audiovisual<br>time and error scores                        | Singer     |
| Solar Technology<br>(#26)                      | no ≲pecific occupa-<br>tiorns listed in DOT   | cutting tubing to size, pre-<br>paring tubing for soldering,  | seated/standing; 1½ hours audiovisual client self-rating quality rating  | Prep/COATS |

| Name  | DOT Codes   | Specific Tasks   | Administration   | Source |
|---|---|--|--|--------|
| Sonnett Credit<br>Sales Work<br>Sample (#901)                   | Automobile Self-<br>Service Station<br>Attendant<br>915.477-010 | assesses the ability to make<br>simple computations and use a<br>credit card processor accu-<br>rately   | seated; 30 minutes<br>oral<br>time and quality standards   | MDC    |
| Ogren Automobile<br>Washing Work<br>Sample (#906)               | Automobile Washer<br>919.687-014                                | assesses the ability to wash and wax the interior and exterior of a car, ability to bend, kneel and reach, and ability to work independently   | standing/bending/stoop-<br>ing/reaching; 3 hours<br>oral and demonstration<br>time and quality scores    | MDC    |
| Stinchcomb Nut<br>and Bolt Pack-<br>aging Work<br>Sample (#902) | Packager, Hand<br>920.587-018                                   | subcontract work sample. Assesses the ability to lift objects weighing up to 40 pounds, set up a work area, hand package 16 nuts and bolts into 75 paper sacks, and replace unused material to storage area      | lifting/pushing/reach-<br>ing/seated;<br>estimate 1½ hours<br>oral and demonstration<br>time and quality | MDC    |
| Packaging &<br>Materials<br>Handling                            | Packager, Hand<br>920.587-018                                   | 7 separate tasks: seal boxes with tape dispenser, assemble cardboard dividers, package breakable items, follow packing orders, band cartons, stencil, operate a hand truck                                       | standing/seated/bending<br>45 to 90 minutes<br>audiovisual<br>time and error scores                      | Singer |
| Johnson Machine<br>Packaging Work<br>Sample (#903)<br>193       | Packager, Machine<br>920.685-078                                | subcontract work sample. As- sesses the ability to package by hand, washers, nuts and bolts into a paper envelope, staple a header onto the envelope, and place it in a box according to prescribed instructions | seated/reaching estimate 1½ hours oral and demonstration one time; 2 quality scores                      | MDC 19 |

| Name                    | DOT Codes                | Specific Tasks | Administration  | Source |
|-------------------------|--------------------------|----------------|---|--------|
| Photo Lab<br>Technician | Developer<br>976.681-010 |                | seated; 3 to 3½ hours<br>audiovisual<br>time and error scores | Singer |

## All Occupations

| Name                                    | DOT Codes  | S⊏ecific Tasks  | Administration  | Source |
|---|--|---|---|--------|
| Eye-Hand-Foot<br>Coordination<br>(#11)  | Most production - machine occupations with foot controls; driving occupations            | Coordnated use of hands/eyes and het  | seated; 15-20 minutes<br>oral/demonstration<br>time and error scores                  | Valpar |
| Independent<br>Problem<br>Solving (#6)  | all industries;<br>especially clerical<br>areas  | assess ba重sic problem solving<br>abilly, us = ing a pattern of<br>geometric s = hapes                     | seated; 25-30 minutes<br>oral/demonstration<br>self-scoring separate<br>answer sheets | Valpar |
| Integrated Peer<br>Performance<br>(#14) | Any industry, especially small parts assembly in electrical; electronics; toys and games | 3 lews of assembly difficulty usingmnan a plugs, inspector positm, coolor discrimination, fingmeexteerity | group; seated;<br>1½ to 2 hours<br>oral/demonstration<br>time and error scores        | Valpar |
| Needle Trades                           | Sewing Machine<br>Operator, Regular<br>Equipment - master<br>title                       | aftermact—ice with paper work-<br>sheetha fæabric purse is cut<br>and swed                                | seated; 1½ to 3 hours<br>audiovisual<br>time and error scores                         | Singer |



| Name  | DOT Codes      | Specific Tasks  | Administration   | Source   |
|---|----------------|---|--|----------|
| Revised Reisterer<br>Mechanical Ap-<br>titude Work<br>Sample (#908) | All indescries | assesses spatial relations, <b>s</b> form perception, manual and finger dexterity. Special instruct ons and forms for blinddients   | seated; 1/2 hour<br>oral/demonstration<br>time and quality scores  | MDC      |
| Road Map Reading<br>Work Sample<br>(#904)                           | All fedustries | assesses the ability to use a road map to locate specific places, calculate mileage, use a map key to determine highway classification and plan a main route based upon given information | seated; 40 minutes<br>reading required<br>time and quality norms   | MDC      |
| Size Discrimi-<br>nation (#2)                                       | All industries | visual size discrimmation,<br>some finger dexterity   | seated; 10 minutes<br>oral/demonstration<br>instructions<br>time and error scores                            | Va 1 par |
| Upper Extremity<br>Range of<br>Motion (#4)                          | All industries | measures range of motion in shoulder, upper arm, forearm elbow, wrist and ham, pain and fatigue   | standing; 25 minutes<br>oral/demonstration<br>time and error scores<br>recording of subjective<br>complaints | Va1par   |
| Whole Body<br>Range of<br>Motion (#9)                               | All industries | measures gross body ovements of trunk, arms, hand, legs, and fingers while reching, stooping, bending, etc., pair and fatigue   | standing; 40 minutes<br>oral/demonstration<br>time scores, recording<br>of subjective complaints             | Va 1 par |

ERIC

#### Addresses of Test Publishers \_\_/Work Sample Developers

American Association on Mental Deficiency 5201 Connecticut Ave., N.W. Washington, © 20015

Houghton Mifflin Co. Test Dept. P.O. Box 1970 Iowa City, Iowa 52240

Jastak Associates, Inc. 1526 Gilpin Avenue Wilmington, Delaware 19806

Materials Development Center Work Sample Manual Clearinghouse University of Wisconsin-Stout Menomonie, Wisconsin 54751

Prep, Inc. 1007 Whitehead Road Extension Trenton, New Jersey 08638

The Psychological Corporation 757 Third Avenue New York, New York 10017 Science Research Associates 155 North Wacker Drive Chicago, Illinois 60606

Singer Educational Division Career Systems 80 Commerce Drive Rochester, New York 14623

Stanford University Press Stanford, California 94305

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